**PRAMOD POGULA pramodp0530@gmail.com**

**571-316-0492**

**SUMMARY:**

* Over 7 years of experience with rich domain knowledge, understanding and practical knowledge of several IT technologies, I seek a career with challenging assignments to amalgamate personal enrichment with professional goals.
* Expert in Various Agile methodologies like **SCRUM, Test Driven Development (TTD), Incremental** and **Iteration methodology, Agile Development** &**Testing using Software Development Life Cycle.**
* Experienced in **Development, Testing** and **Deployment** of enterprise applications on **Windows, Linux** and **UNIX** platforms using IDE's such as **Eclipse, STS, Rational Application Developer (RAD), NetBeans, IntelliJ14.x/15. x.**
* Developed core modules in large cross-platform applications using **JAVA, J2EE, Spring, JSF, iBATIS, Hibernate, JSP, Servlets, EJB, JDBC, Web Services (SOAP, REST), E-Commerce, Micro Services.**
* Developed UI modules using **AngularJS, Vue.js, Node.js, JavaScript, Ajax, jQuery, Cordova, CSS3** and **HTML5**.
* Understanding Elastic search data to generate **Kibana** visualizations.
* Expertise in using **custom AngularJS directives** and **filters** to add functionalities to the web page elements.
* Strong experience in Spring Framework modules such as **Spring MVC, IOC, AOP, JDBC, JTA, IO, Spring Dashboard, Spring Boot, Spring Microservices, Spring REST, Spring Eureka, Spring Ribbon, Spring Netflix, Spring Zuul Proxy.**
* Experienced in implementing **Service Oriented Architecture** and **Web Services using SOAP, REST**.
* Strong understanding of Micro services patterns – **Circuit Breaker/Hystrix, DDD, Aggregator, Proxy Chaining**.
* Developed applications using latest technologies **like Spring 3.x/4.x, Hibernate3.2/4.x, REST** based Web services **(Axis2.0, JAX WS 2.0, JAX RS), Rule Engines (Drools4.1, ILOG)**, **jBPM** tools.
* Proficient in using **Amazon Web Services (AWS).** Extensive experience focusing on services like **EC2, Elastic Beanstalk, CloudWatch, CloudFront, Cloud Formation, IAM, S3, RDS, ElastiCache, SNS, SQS, AMI.**
* Experienced in working with **Spring JDBC Templates, JMS Templates, Spring EAI, Spring Rest Templates.**
* Experienced with **XML** related technologies such **XML, XSLT (DOM, SAX), XPATH and DTD.**
* Experience in database modeling, design and development of **PL/SQL** stored procedures, packages in relational databases: **Oracle 11g, SQL Server 2005/2008, DB2, PostgreSQL and MySQL.**
* Strong experience with **MongoDB** development (reports, schema design, map reduce functions) and migrations from **SQL** relational databases to **NoSQL** databases like **MongoDB, Cassandra** and **CouchDB**.

**TECHNICAL SKILLS:**

|  |  |
| --- | --- |
| **Langu Languages** | **Java 1.8, J2EE, Python 3.6.0** |
| **Web T Web Technologies** | **SERVLETS 3.1, JSP 3.0, JavaBeans 3.0, Java Servlet API 3.0** |
| **Frame Frameworks** | **Spring 4.3, Hibernate 4.3, Angular JS 1.0/2.0, Spring Security 3.2** |
| **Application/Web servers** | **Apache Tomcat 8, IBM WebSphere 8.0, Jetty, Jenkins 2.50, WebSphere MQ 7.5** |
| **Relati Relational Databases** | **Oracle 11g/12C, SQL server 2012/2014/2016, MySQL 5.7, DB2 11.1** |
| **NoSQ NoSQL Databases** | **MongoDB, Cassandra, CouchDB** |
| **Internet Technologies** | **HTML 5, JavaScript 1.8, XML 2.0, CSS 3 and CSS 4, jQuery 2.11, Angular JS 2.0, BackBone.JS 1.3.1, Node JS 6.0.** |
| **Cloud Environments** | **Azure, AWS, Netflix Eureka, Mesos, Kubernetes.** |
| **IDE IDE** | **Eclipse, NetBeans 8.0.2, IntelliJ 2017.1, Spring Tool Suite (STS) 3.9.3** |
| **Operating system** | **Windows 10, Linux Mint 18.1, Unix** |
| **Bug tracking Tools** | **JUNIT4.12, JIRA 7.0, Bugzilla 4.4.12, Curl 7.36** |
| **Reporting Tools** | **Jasper Reports 6.0, Crystal Reports XI, SSRS 5.0** |
| **Methodologies** | **Agile, waterfall, TDD (Test-Driven-Development), Scrum** |
| **Developer IDE Platforms** | **Eclipse, Edit plus, Notepad ++, TEXT PAD, JBuilder, Net Beans 8.0.2, IntelliJ 2017.1, Spring Tool Suite (STS) 3.9.3, GITHUB 2.12.0** |
| **Build Tools** | **Ant 1.10, Maven 3.3.9, Gradle 3.4.1** |
| **Web Services** | **SOAP 1.2, REST 2.0, JAX-WS, JAX-RPC, JAX-RS** |

**Education**: Bachelor’s in Computer Science, JNTU, Hyderabad, India.

**Professional Summary**

**Client : Capital One, Plano, TX DEC 2020 - Present**

**Employer : Tiedot Solutions LLC**

**Role: Full Stack Java Developer**

**Project Description:**

Capital One Financial Corporation is an American bank holding company specializing in credit cards, auto loans, banking, and savings accounts.

Dynamic set of activities to help a member to navigate process that requires the multiple interactions with Capitalone

1. Current process status. 2. Individual Activity status. 3. Next activity required. 4. Estimated process completion.

The main scope is ability to define set of activities for required to full-fill multi step business process, so that process can be consistent and repeatable. And systematically able to create and complete productivity is increased and member has better experience thought the process ability have both manual and automated activities based on business process and ability to have activities added to business activities based on conditions that are defined by the business, so that process can be adapted for multiple business needs.

**Responsibilities:**

● The main responsibility is to design, develop, and re-write the current applications to the Cloud.

● I will be working closely with the solution architects to analyze possible technical solutions for business needs.

● Work on identify and create global components that can be reused across the enterprise’s technology stack

● Build Integration frameworks for both UI and APIs with database integration to validate the data flow in the APIs.

● Develop the SQL queries for checking the Data Transactions and Database Integrity

● Design and Create application database

● Use XML Web Services using SOAP to transfer the amount to transfer application that is remote and global to different financial institutions

● Use Agile software development principles on a daily basis; create features and stories to guide development and implementation of the chosen solution

● Develop code (Proof Of Concept) to test concepts and theories using Java, Spring, Spring Boot, AWS, Angular, SQL, and Microservices

● Will be responsible for onboarding the existing framework and contribute to adding new modules to the main application.

● Work with CloudOps team to set up the CI/CD pipelines and produce the required documentation to deploy the respective micro services in AWS cloud infrastructure.

● Contribute towards design review and approval process and follow up to closure

● Raise potential scope/technical issues to the team

● Support the entire application lifecycle, including concept, design, test, release phases

● Ensure the project's success when launched

● Work with Technology Support teams to monitor and ensure the robustness of the solution

● Document all technical design, code, build and release procedures.

**Environment:** core Java, Spring and Spring Boot framework,micro services, web services, RESTful interfaces ,OOD methodology, Java, XML, J2EE (JSP, JMS, Servlet, JDBC, JPA), Apache Maven, JUnit, Cassandra DB,Application architectures, design patterns,Agile development methodology,Amazon Web Services (ECS, Lambda etc) ,CI/CD pipelines and using DevOps tools (CircleCI, Buildmaster, Jenkins,Sonar, AWS Code Pipeline),Shell scripting

**Client: Schlumberger, Houston, TX**

**Role: Full Stack Java Developer May 2019 - NOV 2019**

**Responsibilities**:

* Involved in Full Cycle of Software Development from Analysis through Design, Development, Integration and testing phases by following **Agile Software Development** with **Scrum methodology**.
* Developed using new features of Java 8 **annotations, Generics, enhanced for loop** and **Enums**.
* Well versed with core Java concepts **like Collections, Swing, Serialization** and **Servlets & JSP.**
* Designed and Developed UI for Customer Service Modules and Reports using **AngularJS, HTML, CSS, Bootstrap, JavaScript,** and **jQuery.**
* Worked with **Angular CLI** and **AngularJS** to create **Controllers and Angular components**.
* Used **Node.js** as a proxy to interact with Rest services and interacting with Database.
* Implemented the business modules integration using **Spring** and **Hibernate data mapping**.
* Used **Spring Boot Actuator** for application's configuration properties in various environments, Upgraded **Spring Rest Controllers** and **Services classes** to support migration to **Spring framework.**
* Using **Spring AOP** Module to implement logging in the application for application status and deployed **Spring Security** for **session fixation, clickjacking, cross site request forgery.**
* Developed **Microservices** using **Spring Boot,** **Spring Cloud** with **Netflix Eureka** to create the discovery Server, service, discovery clients and integrated **Apache Kafka** and **Zoo Keeper** as message broker.
* Developed **microservices** with **Spring** to retrieve API routes for the entire cluster. Using this strategy each microservice in a cluster can be load balanced and exposed through one **API gateway**.
* Developed Entity objects and used **Hibernate the ORM** tool to access persistent data from **SQL Server**.
* Experience using persistence framework like **Hibernate, JPA** for mapping java classes with Database.
* Experience working on **Docker Hub**, creating **Docker images** and handling multiple images primarily for middleware installations and domain configurations.
* Developed Spring services, DAO’s and defined routes using Apache Camel.
* Developed messaging module using spring JMS, apache camel and ActiveMQ.
* Developed the Required components using the React JS with the workflow of Redux to simplyfi the application.
* Utilized **AWS Lambda** platform to upload data into **AWS S3buckets** and to trigger other Lambda functions (**EC2, MongoDB**) focusing on high-availability, fault tolerance, and auto-scaling).
* Involved in configuring **Elastic Load Balancers** with Auto scaling to handle high traffic loads.
* Used **SQL Server** to access data in the database at different Levels, responsible for implementing **SQL queries** and managing **JDBC** interactions with data sources.
* Worked on **JBoss** Application server implementation, support, workload management and performance tuning including Web server setup configuration with **JBoss App Server**.
* Used React JS for templating for faster compilation and developing reusable components.
* Designed and developed custom **message adapter** components using **Apache Kafka** that allowed message to travel through Microservices to base on **RESTful API** utilizing **Spring Boot** with **Spring MVC.s**
* Used **Maven** automated build scripts to compile and package the application and implemented **Log4j**.
* Implemented unique **design patterns** such as **singleton, business factory** and **J2EE design patterns**.
* Used **Maven** as build and dependency management tool for creating **EAR, WAR** and **JAR** file to be deployed in application servers and integrated with **GitHub, Jenkins Jobs.**
* Used **JIRA** for bug tracking, issue tracking and project management.
* Involved in converting **SQL** queries into **Apache Spark** transformations using Apache Spark RDDs and **Scala**.

**ENVIRONMENT:** Java 8, J2EE, Spring Framework, Microservices, Spring MVC 4, MongoDB, Angular 4.0, Core Java, Spring Security, Hibernate 4.X, Magento, jQuery, JSON, AJAX, Web Services, SOAP, XML, Java Beans, XSTREAM, Apache POI, EXT JS, JavaScript, React JS, Eclipse, JBOSS, Agile Methodology, Design Patterns, Apache Maven, JUnit, HTML/Unit, XSLT, HTML5/DHTML.

**Client: CenturyLink, Littleton, CO   
Role:  Java/J2EE Full Stack Developer                                                                                       Oct 2018 – May 2019**

**Responsibilities:**

* Designed and developed User Interface of application modules using **HTML, JSP, CSS, JavaScript (client-side validations), JQuery   and AJAX**. Worked on **Mongo DB** and wrote code which finds, update, save and insert data to **Mongo DB.**
* Developed the **DAO** layer with **Mongo DB** by writing Mongo queries. Worked on upgrading the **Mongo DB** version from 2.4 to 2.6.
* Used **Spring Data Mongo DB** as the persistence framework in retrieving the user and medical benefits details from Mongo DB.
* Strong experience with **Microservices, Spring Boot, Spring Cloud, Cloud Foundry**. Proven ability in developing **BDD** scripts with Cucumber and writing step definitions for behavior
* Experience in Automation testing using **Selenium Web Driver, JUnit and Maven**.
* Used **Apache Kafka** (Message Queues) for reliable and asynchronous exchange of important information between multiple business applications.
* Involved in developing an automation tool, in Java and **Scala** on **Akka** Framework.
* Responsible for overall **Docker &Kubernetes** setup, configuration and Architecture.  Configured and maintained a large-scale Docker based PaaS environment using kubernetes.
* Used **React JS and Node JS** to develop faster, scalable application. I used **JSF** and prime faces to upload files and reasoning for custom templating.
* Implemented various screens for the front end using **React.js** and used various predefined components from **redux** library.
* Developed the webpages using framework **Angular 6.0** along with **HTML5, CSS3 and Type Script**.
* Designed and reviewed the test scenarios and scripts for given functional requirements and automated test cases in **Selenium.**
* Extensively worked on the **Angular UI** Routing to handle navigation to access different pages in the application. Migrated from **Angular2 to Angular6**.
* Using **Angular JS** factory and services for dependency injection and created custom directives for re-usable components (multi-field form elements, background file uploads, etc.)
* Created Menus and Drawer component by using **Typescript and Angular 6.0**. Implemented continuous integration using Docker. Extensively used the **LOG4j** to log regular Debug and Exception Statements.
* Experience in using Atlassian tools **like JIRA, Bitbucket, Bamboo, Confluence &Source Tree**.
* Experience with **Angular 4** Directives, Dependency Injection, Services, Routing, pipes, Animations, Forms, AOT, Lazy Loading.
* Used Spring framework and J2EE components, Utilized **Spring Boot, IOC and DAO** modules. Developed controller classes, backend process, complex services and database interaction.
* Used **Spring Boot** to create stand-alone spring applications. Created **Typescript** reusable components and services to consume **REST API's** using Component based architecture provided by **Angular 6**.
* Implemented **Micro Services** based Cloud Architecture using **Spring Boot** and implementation of Business Services using the **Java8** and **Spring Boot**.
* Used **Spring Boot** framework to write Presentation Layer, Business Layers and Controller servlets. Implemented Spring Boot Actuator to monitor application performance.
* Used Spring Inheritance to develop beans from already developed parent beans.
* Developed Java classes for implementing asynchronous processing using **JSM.**
* Implemented **Spring Batch** and ESP Task & Job Scheduler to automate importing data from CSV files sent from client into database.
* Used **Spring Cloud** Config which provides server and client-side support for externalized configuration in a distributed system.
* Used **Java Messaging Services (JMS)** which provides reliable and asynchronous form of communication and have good knowledge in **RabbitMQ.**
* Created forms to collect and validate data from the user in HTML5 and React JS.
* Implemented **OAuth2 and SAML** authentication protocol for enterprise **Web API** security model.
* Expertise in using built tools like **Maven, ANT** for the building of deployable artifacts such as jar & war from source code. Implemented a **Node.js** server to manage authentication.
* Implemented **Service Oriented Architecture (SOA)** by invoking multiple SOAP based Web Services and generating client using **JAX-WS**. Used **SOAP UI** to interact with other applications using **SOAP** and **WSDL** file.
* Integrated **Spring** with **Hibernate** using configurations and implemented **DAO** layer to save entities into data base. Used **Kubernetes** to configure in the application for automating deployment, scaling, and management of containerized applications.
* Developed application on Spring framework by utilizing its features like **Spring Boot, Spring Dependency injection, Spring Beans, Spring Security, Spring JPA, Spring Web flow** using MVC.
* Implemented **OAuth 2.0** provider mechanism is responsible for exposing OAuth 2.0 protected resources.
* Build and configure a virtual data center in the Amazon Web Services cloud to support Enterprise Data.
* Troubleshooting technical issues and drive issue escalation with **AWS** Service teams
* Used **Rest** templates in the Spring Services to call the rest web services.
* Used **Hibernate**, object relational-mapping (ORM) solution, technique of mapping data representation from **MVC** model to Oracle Relational data model with a SQL-based schema.
* Involved in creating the **Hibernate** POJO Objects and mapped using Hibernate Annotations.
* Used microservice architecture with **spring-boot** based services interacting through a combination of **REST** and **RabbitMQ.**
* Having good implementation experience with installation and configuration of Kubernetes, clustering them and managed local deployments in Kubernetes.
* Involved in writing **Oracle PL/SQL** Stored procedures, triggers, and views. Worked on **NoSQL** data base **MongoDB**& Performed CRUD operations like Update, Insert & Delete.
* Fetched data from **mongo DB** using mongoose.

**Environment:** Angular 6.0, Spring Boot, IOC, DAO, Micro Services, JSM, Node JS, OAuth 2.0, Bower, Grunt, RabbitMQ, Amazon Web Services (AWS), Spring Services, Hibernate, POJO, Maven, ANT, PL/SQL, MongoDB, Kubernetes, Mongoose, Selenium, Docker, Log4j, Jenkins, Bamboo, SSL/TLS.

**Client: Intuit, Woodland Hills, CA**

**Role: Java/J2EE Full Stack Developer Jan 2016 - Oct 2018**

**Responsibilities**:

* Involved in Full Cycle of Software Development from Analysis through Design, Development, Integration and testing phases by following **Agile Software Development** with **Scrum methodology**.
* Developed using new features of Java 8 **annotations, Generics, enhanced for loop** and **Enums**.
* Well versed with core Java concepts **like Collections, Swing, Serialization** and **Servlets & JSP.**
* Designed and Developed UI for Customer Service Modules and Reports using **AngularJS, HTML, CSS, Bootstrap, JavaScript,** and **jQuery.**
* Worked with **Angular CLI** and **AngularJS** to create **Controllers and Angular components**.
* Implemented the business modules integration using **Spring** and **Hibernate data mapping**.
* Used **Spring Boot Actuator** for application's configuration properties in various environments, Upgraded **Spring Rest Controllers** and **Services classes** to support migration to **Spring framework.**
* Using **Spring AOP** Module to implement logging in the application for application status and deployed **Spring Security** for **session fixation, clickjacking, cross site request forgery.**
* Developed **Microservices** using **Spring Boot,** **Spring Cloud** with **Netflix Eureka** to create the discovery Server, service, discovery clients and integrated **Apache Kafka** and **Zoo Keeper** as message broker.
* Developed **microservices** with **Spring** to retrieve API routes for the entire cluster. Using this strategy each microservice in a cluster can be load balanced and exposed through one **API gateway**.
* Developed Entity objects and used **Hibernate the ORM** tool to access persistent data from **SQL Server**.
* Experience using persistence framework like **Hibernate, JPA** for mapping java classes with Database.
* Experience working on **Docker Hub**, creating **Docker images** and handling multiple images primarily for middleware installations and domain configurations.
* Developed Spring services, DAO’s and defined routes using Apache Camel.
* Developed messaging module using spring JMS, apache camel and ActiveMQ.
* Worked on creation of **Docker container images**, **tagging, pushing images, integrating Spring boot**, created the **Docker containers** and **Docker consoles** for managing the application life cycle.
* Utilized **AWS Lambda** platform to upload data into **AWS S3buckets** and to trigger other Lambda functions (**EC2, MongoDB**) focusing on high-availability, fault tolerance, and auto-scaling).
* Involved in configuring **Elastic Load Balancers** with Auto scaling to handle high traffic loads.
* Used **SQL Server** to access data in the database at different Levels, responsible for implementing **SQL queries** and managing **JDBC** interactions with data sources.
* Worked on **JBoss** Application server implementation, support, workload management and performance tuning including Web server setup configuration with **JBoss App Server**.
* Designed and developed custom **message adapter** components using **Apache Kafka** that allowed message to travel through Microservices to base on **RESTful API** utilizing **Spring Boot** with **Spring MVC.**
* Used **Maven** automated build scripts to compile and package the application and implemented **Log4j**.
* Implemented unique **design patterns** such as **singleton, business factory** and **J2EE design patterns**.
* Used **Maven** as build and dependency management tool for creating **EAR, WAR** and **JAR** file to be deployed in application servers and integrated with **GitHub, Jenkins Jobs.**
* Used **JIRA** for bug tracking, issue tracking and project management.
* Involved in converting **SQL** queries into **Apache Spark** transformations using Apache Spark RDDs and **Scala**.

**ENVIRONMENT:** Java 8, J2EE, Spring Framework, Microservices, Spring MVC 4, MongoDB, Angular 4.0, Core Java, Spring Security, Hibernate 4.X, Magento, jQuery, JSON, AJAX, Web Services, SOAP, XML, Java Beans, XSTREAM, Apache POI, EXT JS, JavaScript, Eclipse, JBOSS, Agile Methodology, Design Patterns, Apache Maven, JUnit, HTML/Unit, XSLT, HTML5/DHTML.

**Client: Sonata Software, INDIA**

**Role: Java/J2EE Full Stack Developer JULY 2012 - DEC 2015**

**Responsibilities:**

* Followed **Agile, Scrum** approach of development strategy.
* Created many custom filters using **Angular 4.0** and external module to manipulate the routing.
* Configured **Karma** test runner for the project and unit tests are written in **Jasmine**.
* Designed, develop a custom, single-page, responsive **Web Application** on front end using **Angular 4.0**.
* Designed pages using **Angular 4.0 Validations, Modules, Events, Expressions, Directives, Controllers** and **Filters.**
* Extensively used **Spring Framework** modules like **MVC, DI (IOC), JDBC Templates, Spring Security** and **AOP.**
* Created and injected **Spring** services, **controllers** and **DAOs** for **DI** and to wire objects of business classes.
* Implemented the Project structure based on **Spring MVC** pattern using **Spring boot.**
* Hands on experience **Spring Boot Actuator**, **Spring Cloud**, and **Netflix Eureka.**
* Extensively used **Hibernate Mappings**, **HQL**, **Query, Criteria, Lazy Loading Transactions** and **Locking’s.**
* Developed Stored Procedures, triggered stored procedures using **Hibernate**.
* Experience with various persistence mechanisms and **APIs** like **JPA**, **JDO**, **Hibernate**, **EJB**.
* Used **Hibernate EHcache** for second level caching which resulted in enhanced performance of the application.
* Developed **Web Services** using **SOA** technologies such as **REST**.
* Developed and consumed **Apache CXF** based Web Services as part of Payments Application.
* Developed **Grunt** tasks to run the unit tests on **Jenkins**.
* Used advanced **Java 8** features like **Lambda Expressions** Streams, Filters. Enhanced concurrency methods etc.
* Design and develop **Selenium** tests to verify functionality of internal business applications and resulting data.
* Experience with creating **Workflows, Mappings** and Scheduling **Jobs** in **Informatics.**
* Developed Business rules using **Drools** and integrated with Application.
* Deployed the application in **JBoss** production server running in **Linux** platform.
* Worked with high volume and complex **PL/SQL Stored Procedures** and **Packages** using **TOAD**.
* Design patterns are extensively used to achieve clean separation of different layers like **Adapter, Singleton, Factory, Abstract Factory, Service Locator** and **Facade**.
* Used Amazon web services SNS to send messages to email and http end point.
* Extensively Used **Castor, XStream & JAXB** APIs for **XML** Marshaling and Un-marshaling.
* Experience with Upgrading existing project from **CVS** to **SVN** and **Hudson** to **Jenkins**
* Involved in process for builds and deployments with Maven and Jenkins for continuous integration
* Developing **Docker** images for Development and Testing teams and their pipelines.
* Strong understanding of **Microservice** architectures, patterns, related frameworks and prior hands-on experience in developing and deploying **Microservice** solutions.
* Implementing or exposing the **Micro service architecture** with **Spring Boot** based services interacting through a combination of REST and **Apache Kafka** message brokers.
* Coordinated **Kafka** operations and monitoring (via JMX) with **Dev ops** team.
* Having knowledge on Ruby on Rails. Developed and tested features in Agile environment with Ruby, Ruby on Rails, MySql.
* **Docker** container images, tagging, pushing images, integration of **Spring boot**.
* Experience in develop and configure monitoring solutions to provide full visibility to the different platform components using tools and services like **AWS, Cloud watch, Splunk**.
* Experience in Cloud Solutions on **AWS** utilizing **EC2, S3, IAM, ECS** and **RDS** etc.
* Developed UI with extensive use of Backbone.js framework that helped to organize the code.
* Experience designing and developing applications on relational databases **MongoDB.**
* Involved in Performing Data analysis on Hive tables using Hive queries

**Environment:** Core Java/J2EE, Servlets, Java Spring, JSTL, JMS, XML, XSLT, JDBC, Python 2.7, AJAX, IBM WebSphere Application Server 8.0, Oracle 11, WSAD, IBM MQ, HTML, CSS, JavaScript, Eclipse, UML, Windows XP, CVS, JUnit, ANT.