VINOD KUMAR VERMA

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To secure a dynamic position in a professionally challenging environment where my technical and analytical skills will be utilized to the utmost level and provides enough scope to explore my knowledge to serve the organization to the best of my ability and skills.

Synopsis

Young, energetic and result oriented **B. Tech (CSE)** professional with knowledge of IT domain with focus on delivering business solutions; Persuasive communicator with exceptional relationship management skills with the ability to relate to people at any level of business and management; highly ethical, trustworthy and discreet. Adroit at learning new concepts quickly, working well under pressure and communicating ideas clearly and effectively.

- **9+ Years of DevOps experience in DevOps & Cloud Computing (AWS IaaS, SaaS & PaaS) and Server-side Development experience with languages like Java/J2EE, Node.js.**
- **Infrastructure Orchestration & Application Deployment in Stage & Prod Environment.**
- **Microservice Deployment, Monitoring & Management in Stage & Prod Env.**
- **Setting up CI/CD pipeline for Dev application using Jenkins & GitHub.**
- **DNS, SSL Certificate Procurement & Configuration etc.**
- **Configuration of Google, Facebook developer Account for Social Integration.**
- **Involvement in Cost Estimation & Design Architecture of Cloud Infrastructure.**
- **Involved in creating POC's (Proof of Concepts) of new innovative Idea's.**
- Excellent decision-making skills with a positive approach.

Education & Credentials

- **B. Tech (Computer Science & Engineering)** from West Bengal University of Technology in 2010 with CGPA 7.89/10.

Technical Proficiency

Languages	**:** Java, J2EE, Node.js, Bash
DevOps Tool	**:** Vagrant, Docker Packer Terraform, Kubernetes, Ansible, Jenkins, AWS CloudFormation
Source Control	**:** GitHub, BitBucket, Tortoise SVN, Perforce.
Build tools	**:** Maven, ANT
Operating Systems	**:** Linux (Centos, Ubuntu, Redhat), Windows 8/12 Server
Cloud IaaS, SaaS, PaaS	**:** Amazon Web Service (CloudFormation, VPC, S3, EC2, ECS, ECR, Route53, RDS, CloudFront, IAM, SNS, SES).
Databases	**:** MySQL, Amazon RDS, MongoDB, DynamoDB, Cassandra

Monitoring Tools	**:**	DataDog, NewRelic, Splunk, PagerDuty, Slack, HipChat
Frameworks	**:**	Hibernate3.0, Spring4.0, Axis2, CXF 2.0, Jersey
IDE	**:**	VSCode, Eclipse Juno, Sublime, Atom, Webmatrix.
Software Development Methodologies	**:**	Agile, Waterfall Methodology
Servers	**:**	Nginx, Tomcat 7.0, Apache, James, Amazon EC2, ECS, ESR
Web-Technologies	**:**	HTML, XML, Java Script, JSP and Servlet
Web Services related	**:**	JAX-WS, JAX-RS, Apache Axis2, CXF, Jersey (SOAP & Restful)

Employment Details:

Employer	**:**	**Indecomm Digital, Jun'17- till *Bangalore***

Project Handled:

Project - I

Employer	**:**	**Armor Cloud, *Bangalore***
Designation	**:**	**Sr. DevOps Engineer**
Project Name	**:**	**Armor Cloud**
Team size	**:**	**55**
Frameworks	**:**	**Terraform, Packer, Docker, Kubernetes, Ansible, Datadog, Grafana, Jenkins**
Cloud IaaS, SaaS Production Tools		**Amazon Web Service (EC2, S3, Route53, VPC, RDS CloudFront, IAM).**
Databases	**:**	**MSSQL, PostgreSQL, ELK.**
Role	**:**	**Design Architecture, Configuration Management, IaC (Infrastructure Provision, Patching), Continuous Integration (Jenkin + GitHub), Deployment (Blue-Green, Canary), Monitoring & Alert (DataDog + PagerDuty), SRE, Documentation (KB).**

Brief Description:

DevOps :

1. Armor Cloud is Private Secure Cloud provider with PCI, HIPPA, ISO Compliance.
2. AWS Cloud Infrastructure Provisioning: Terraform, Packer & Ansible
3. Microservice Apps Orchestration & Deployment using Kubernetes & Docker.
4. Troubleshooting Production issues & fixing bugs.
5. AWS Infrastructure Management, Access, Costing, Monitoring etc.
6. Managing & Monitor 5 Data Center Armor Private Cloud
7. Patching & applying regular security patches.
8. Setting & Managing CI/CD for Development application.

9. Datadog - Monitor core metrics: CPU, memory, disk, network, Fork rate, Ping Check
10. Messaging monitoring: RabbitMQ
11. Cluster Log Management System: ELK
12. Troubleshooting system & Application issues to meet SLA
13. Works as SRE tickets & remedies within SLA.
14. Collaborate with Dev team to Sprint Releases.

Employer	**:**	**BMC Software India Pvt. Ltd, Feb'16- Jun'17 *Bangalore***

Project Handled:

Project - I

Employer	**:**	**BMC Software India Pvt. Ltd, *Bangalore***
Designation	**:**	**DevOps (SSPD) Engineer**
Project Name	**:**	**Truesight SaaS Solution**
Team size	**:**	**40 (Fourty)**
Frameworks	**:**	**Terraform, Packer, Vagrant, Ansible, Docker, Jenkins**
Cloud IaaS, SaaS		**Amazon Web Service (EC2, S3, Route53, VPC, RDS CloudFront, IAM).**
Production Tools		**Consul, OpsGenie, Sensu.**
Databases	**:**	**MySQL, Cassandra, ES.**
Role	**:**	**Design Architecture, Configuration, Development (Developing tools for automation of Dev, Pro etc.), Continuous Integration (Jenkins), Deployment, Documentation.**

Brief Description:

Truesight SaaS Solution :

15. Real-time, SaaS-based monitoring and analytics to drive operational success.
16. Find issues your current server or cloud monitoring solution is missing. Integrate AWS Cloudwatch metrics (EC2, RDS) into your infrastructure monitoring tool. Stabilize your infrastructure by finding misbehaving code and performance anomalies. Empower your DevOps teams to accelerate continuous delivery.
17. Monitor core metrics: CPU, memory, disk, network, Forkrate, Ping Check
18. Database monitoring: Aerospike, CouchDB, Cassandra, Elasticsearch, Hbase, Memcached, MongoDB, MySQL, PostgreSQL, Redis
19. Monitor web servers: Apache, HA Proxy, HTTP Check, Litespeed, NGINX
20. Automate deployment: Chef, Puppet, Ansible
21. Messaging monitoring: Kafka, RabbitMQ
22. Feed notification and collaboration tools: Campfire, Flowdock, HipChat, OpsGenie, Pager Duty, Slack, VictorOps, xMatters
23. Full support for physical and virtualized systems
24. Works effortlessly across public, private or hybrid clouds
25. Single command line install

26.Meter (agent) typically <1% CPU

Employer	:	**Aricent Technology(Holding) Pvt. Ltd, Jan'15- Feb'16 *Bangalore***

Project Handled:

Project - I

Employer	:	**Aricent Technology(Holding) Pvt. Ltd, *Bangalore***
Designation	:	**Senior Software Engineer**
Client		**Intel Technology Pvt. Ltd.**
Project Name	:	**Smart Wearable Device's**
Team size	:	**30 (Thirty)**
Frameworks	:	**Node.js, Angular.js, Android, iOS**
Cloud IaaS, SaaS		**Amazon Web Service (CloudFormation, VPC, EC2, RDS, S3, IAM, Route53, CloudFront, SES, SNS).**
Production Tools		**Splunk, MQTT, PagerDuty, NewRelic.**
Databases	:	**MySQL, MongoDB, DynamoDB.**
Role	:	**Design Architecture, Configuration, Development, Integration, Deployment, Documentation.**

Brief Description:

Smart Wearable Device's(Titan JuxtPro):
Smart Wearable Device's Cloud Services provides RESTful web services which is developed with latest technologies like Node.js as server side and NoSQL Database as MongoDB. Smart Wearable Device's Cloud also provides Web Portal which is also developed with latest technology like Angular.js, HTML & CSS. For storing user data, we are using Cluster MongoDB for High Availability & Scalability.
The whole Smart Wearable Device's Cloud services are Deployed on Amazon Web Services (AWS) as Infrastructure using various cloud services provided AWS like

1. EC2 as server
2. S3 for storing Physical data.
3. Route 53 for Hosting Smart Wearable Device's Domain and configuration sub-domain.
4. IAM for security and key management.
5. RDS & DynamoDB for MQTT database.
6. CloudFormation for Deployment of stack.
7. Elastic Load Balancer & Autoscaling for high availability.
8. SNS & CloudWatch for alarm & Monitoring.
9. VPC for Virtual Network Configuration & Routing.
10. EBS & Snapshots for storage and backup.

Smart Wearable Device's Cloud is enabled with Operational & Monitoring Tools like,

1. Splunk Enterprise for checking and debugging logs of Services on Splunk Web View.

2. NewRelic as APM (Application Performances Monitoring) which gives API Performances analytics.
3. PagerDuty as Alarming tool, it will provides alerts on Mobile, Mail & SMS to Operational Team.

Smart Wearable devices consist of 3 components:

1. Device
2. Phone
3. Cloud Portal

27. Device: This devices are wearable having new innovative look and feels.
28. Phone: Phone will make communication between Device & Cloud.
29. Cloud: It is basically a portal for user interface, so user can manage their devices feature's on Cloud and can send information to Device's via Phone.

Key Role:

- Cloud Design Architecture for Security, Deployment and Configuration.
- Account setup, Domain & SSL Configuration on AWS Cloud.
- Production Tool's (like Splunk, NewRelic, Pagerduty) Configuration.
- AWS Architecture Design Documentation.
- Google GCM & APNS Services for notification.
- AWS ELB with auto-scaling.
- Cloud Formation Deployment.
- Integration Social (Google, FB, Twitter etc.) login with Cloud.
- App Development in Node.JS.

Employer	**:**	**Samsung R&D Institute*, Delhi***	**Mar'13-Jan'15**

Project - II

Employer	**:**	**Samsung R&D Institute*, Delhi***
Designation	**:**	**Software Engineer II**
Project Name	**:**	**Club Samsung 2.0**
Team size	**:**	**20 (Twenty)**
Frameworks	**:**	**Hibernate3.0, Spring 2.5x, Node.js,**
Cloud IaaS, SaaS		**Amazon Web Service (CloudFormation, EC2, VPC, RDS S3, Route53, CloudFront, SES, SNS, IAM).**
Databases	**:**	**MySQL, MongoDB, SqLite3**
Role	**:**	**Design Architecture, Configuration, Development, Integration, Deployment, Documentation.**

Brief Description:

Club Samsung is platform provide all kind of entertainment at one place like Songs, Movies, LiveTV etc. with all high end devices of Samsung. Club Samsung Server Side & Client Side developed in SRI-Delhi.
Club Samsung Server Side development uses Java, JEE, Spring, Hibernate, MySQL, JSON, Web Services (RESTFul), HTML, CSS, JavaScript etc.
Club Samsung Server is deployed in AWS Cloud. Where all media content is stored on Cloud.
Club Samsung uses AWS EC2, S3, VPC, SES, EBS, ELB, CloudFront etc.

Experience the new face of entertainment with Club Samsung which brings you Music, Videos, Movies & Live TV anytime, anywhere!
One Stop Shop to the universe of entertainment

Your single window to Music, Videos, Movies, Live TV all at one place.
Integrated Media Environment (IME)
Club Samsung has unified player for all offline and online media content.
Application scans your device for available Music and Videos & brings them under one environment.
It allows easy discoverability of required content & helps you with Cross content Searching & reduces navigation across application.
Unified Powerful Player

Club Samsung redefines your content experience with new media player. It allows multitasking such as synchronous browsing, social sharing, and comments, provides you recommendation & supports minimized version for both Audio and Video formats.
Samsung Single Sign On and Multi Screen Support

Your content travels with you. With Samsung Single Sign On, you can experience personalization & content management options like Cross-content Searching & Combined Purchase List. The only entertainment application which is available across Screens
Effortless browsing with one hand Operation
With consistence & Intuitive interface, Jog dial shaped music player, Universal drawer helps you access Club Samsung with just one hand.

Key Role:

- Cloud Design Architecture for Security, Deployment and Configuration.
- Account setup, Domain & SSL Configuration on AWS Cloud.
- AWS Architecture Design Documentation.
- AWS ELB with auto-scaling.
- Cloud Formation Deployment.
- Integration Social (Google, FB, Twitter etc.) login with Cloud.

Project – I

Project Name	:	**13_Device_Based_Web_Service_Framework**
Team size	:	**20 (Twenty)**
Frameworks	:	**Hibernate3.0, Spring 2.5x, Node.js, Amazon Web Service (CloudFormation, VPC, RDS, EC2, S3, Route53, IAM).**
Databases	:	**MySQL, MongoDB, SqLite3.**
Role	:	**Configuration, Developer, Integration, Debugging, Deployment, Documentation.**

Brief Description:

In order to deliver web service platform for N-Screen, web based TV companion application framework and cloud based N-screen application ecosystem are needed. Considering not only extensibility but also compatibility, Node.js is best choice as web centric device for N-screen.

In order to integrate the DTV Stack, DTV tool chain will be used to compile Node.js and its modules for DTV platform. Web Service Platform will be integrated VD Linux.

This platform is being developed with having N-screen features as core. It will offer better connectivity with nearby devices as well as cloud by utilizing node.js based device web server.

Salient Features:

- Automated system for node modules and package upload to DTV.
- Node.js modules and packages will be uploaded to Content Server (AWS Cloud).
- Admin will verify packages on Content Server for DTV deployment.
- After verification, package info will be pushed to DTV through SSE mechanism.

Key Role:

- AWS EC2 server is used for deploying DWS.war services.
- AWS Simple Storage Service (S3) is used for storing/retrieving the data.
- AWS Relational Database Service (MySQL/sqlite3) is used as database.
- AWS Elastic Beans Talk for management of auto-scaling.

Responsibilities:

Coding Java services using above mentioned technologies.

Deployment of WAR file (Services) in EC2 Tomcat Server.

Database management and Testing with Dump data.

Debugging and bug fixing.

Code review and performance testing.

Involved in preparing the test cases and test plans.

Adherence to Coding Standards & Project Schedule.

Employer	**: *Information Technology Management, Bangalore*** ***June'12-Dec'12***

Employer	**: *Information Technology Management, Bangalore***
Designation	**: Software Developer**
Domain	**: E-commerce**
Project	**: Life Time Locker (**Online Storage**)**
Client (Deputed at)	**: Toshiba Software India Pvt. Ltd. (Bangalore).**
Team size	**: 10 (Ten)**
Frameworks	**: Hibernate3.0, Spring 2.5x, Apache CXF (Restful Web Service),**
Cloud IaaS	**: Amazon Web Service (RDS, EC2, S3, SES).**
Role	**: Configuration, Developer, Integration, Debugging, Documentation.**

Brief Description:

Lifetime Locker is online storage application for storing the all kind of data format with highly secure place in Amazon Cloud. Amazon Web Service is used for development, deployment, databases.
Users can upload and download there documents and files with high security with encryption of data on Cloud.
LTL apps are available in Google Play for Android users and in Sky Dive for Windows users. Users can easily download and install in there system and use for storing there data/documents in Cloud.
Lifetime Locker will support the Window8, Window8 Phone and Android Phones. This is available for US & JAPAN users.

- AWS EC2 server is used for deploying RESTful services.
- AWS Simple Storage Service (S3) is used for storing/retrieving the data.
- AWS Relational Database Service (MySQL) is used as database.
- AWS Simple Message Service (SES) is used for email service.

Responsibilities:

Coding Java services using above mentioned technologies.

Deployment of WAR file (Services) in EC2 Tomcat Server.

Involved in Server side API documentation.

Database management and Testing with Dump data.

Debugging and bug fixing.

Code review and performance testing.

Involved in preparing the test cases and test plans.

Adherence to Coding Standards & Project Schedule.

Employer	**:**	***Lumiplan ITS India Pvt. Ltd., Bangalore-Jul'11-Jun'12***

Employer	**:**	***Lumiplan ITS India Pvt. Ltd., Bangalore***
Designation	**:**	**Associate Member Of Technical Staff in R&D**
Domain	**:**	**ITS (Intelligent Transport System)**
Project	**:**	**Yverdon- SIV (**Système d'Information des Voyageurs**)**
Client	**:**	**TRAVYS (Yverdon-les-Bains, France)**
Team size	**:**	**5 (Five)**
Frameworks	**:**	**Hibernate3.0, Spring2.5x, Axis2 (Web Service), MySQL**
Role	**:**	**Developer, Debugger.**

Brief Description:

TRAVYS society operates the city buses in Yverdon-les-Bains.This company wants to equip its network management system of information kiosks at stops to give clients a theoretical information & real-time.
TRAVYS already has a support system operation (SAE) "Sylvia" with which the new passenger information system (SIV) interfaces.

- Integration of data files from the system schedules referential Hours; these data are exported from system skin to the SAE system, which provides the system SIV.
- The integration, real-time updated data of hourly forecasts from the SAE.
- The automatic display management of wait times, mixed mode / actual, taking into account the peculiarities of end of service and end of the day.
- Modes disconnect able or priority information in case of strong interference situation.
- A programming broadcast messages cyclical addressable line / sub line or terminal;
  The remote control displays and monitoring of their vital functions (charges battery, display, transmission).
- The transmission management and recovery algorithms in case of interruption of the transmission channel.
- The optimization of operating costs through wise management of transmissions.
- The update software or settings of BIV for maintenance preventive, curative or evolutionary.
- The setup and administration of the park BIV connected.
- **The screens show:**

- Information relating to the passage of vehicles at bus stops.
- Text messages situational information, on line or by generals.
- Related information, in the form of static images displayed in parallel time information.
- Each display is organized by the left, in "virtual glasses" like the display is on LCD terminals, partly right in a multimedia display area.

Execution Environment :

From a technical perspective,

- The application modules of SIV are Web applications developed in Java,
- The man-machine interfaces are Flex applications.
  These applications are served by an Apache server in http mode.
- The database is a MySQL database.
  The server system is deployed on a Linux system.
- The operator consoles can run equally well on Windows machines, Mac or Linux via a web browser with a Flash plug-in supporting Flex 4.

Responsibilities:

Coding Java services using above mentioned technologies.

Deployment of AAR file (Services) in Tomcat Server.

Database management and Testing with Dump data.

UI development and bug fixing by using Flex 4.5.

Involved in bug fixing.

Code review and performance testing.

Involved in preparing the test cases and test plans.

Adherence to Coding Standards & Project Schedule.

Employer	**: *Essence System Pvt. Ltd., Kolkata***	**July '10 – July'11**
Designation	**: Software Engineer**	
Domain	**: Commodity Exchange.**	
Project	**: MCX-UCC (In House Project)**	
Team size	**: 5 (Five)**	
Frameworks	**: Hibernate3.0, Spring 2.5x, Axis2 (Web Service), Flex 4.5**	
Role	**: Developer**	

Brief Description:

- Unique Client Code (UCC) is provided by the Multi Commodity Exchange of India Ltd. (MCX) to its members to collect, store and maintain the information of their clients.
- The user-friendly environment of UCC makes working simple and easy.
- On successful user authentication, the UCC main window is displayed.
- UCC is featured with various functionalities that facilitate maintaining the client information optimally and making the data available at a click.
- In addition, the shortcut Hot keys further quickens the working.

Responsibilities:

Coding Java services using above mentioned technologies.
Database management and Testing with Dump data.
UI development and bug fixing by using Flex 4.0.
Involved in bug fixing.
Code review and performance testing.
Involved in preparing the test cases and test plans.
Adherence to Coding Standards & Project Schedule.

Training/Certifications

- SAP – ERP Training Certificate from ADHUNIK POWER & NATURAL RESOURCES LTD for 1month
- IRDA (Licensing of Insurance Agent) Certificate with Insurance Domain.
- Received Best Organizer Certificate for Cultural event in College.

Personal Details

Date of Birth **:** 7th May, 1984
Languages Known : English, French, Hindi and Bengali.
Hobbies **:** Browsing, Learning new technologies, Photography, Travelling.

(Vinod Kumar Verma)