**Kirtana Darabal**

**Senior Java Developer**

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**Summary**

* Has 9 years of experience designing/architecting on a number of web-based application development projects using Java technologies like the Spring Framework along with the Spring projects such as Spring Boot, Spring Security, Spring Web Services, Spring Data JPA
* Has 9 years of experience in client side technologies such as JavaScript, Angular, jQuery, CSS3, HTML5, REST and SOAP web services, and JSON
* Has 9 years of experience in SQL database design, writing PL/SQL functions, SQL queries, procedures, packages and constraints in databases such as Oracle, DB2, PostgreSQL
* Has 6 years of experience development/working with SOAP/RESTful APIs
* Has experience in object-relational mapping frameworks such as JPA-Hibernate
* Has experience writing test cases using JUnit
* Processes knowledge on microservices.
* Involved in writing Java API for Amazon Lambda to manage some of the AWS services.
* Uses versioning tools like Git to manage the source code of projects.
* Deployed and developed the project using AWS EC2, S3 Buckets, Lambda.
* Implemented a Continuous Delivery framework using Jira, Git, Jenkins, and Bamboo.
* Possesses excellent communication and interpersonal skills and is a good team player
* Has the ability to learn new technology quickly and works hard to meet deadlines

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**Technical Skills**

**Technologies:** Java, Spring, Spring Boot, Angular, Hibernate-JPA, RESTful APIs, AWS.

**Versioning Tools:** Git

**Development Tools:** Eclipse IDE, Vim

**Databases:** Oracle, DB2, PostgreSQL \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Education**

**Master of Science - Service Oriented Software Engineering** Aug 2015 - Oct 2018

**University of New South Wales (UNSW), Australia**

**Research Topic:** **Vulnerability Exploration and Understanding Services** - Developed a solution to assist software developers and security experts to effectively search for answers to their vulnerability-related queries. Used AWS products such as Amazon EC2 to deploy the solution and Amazon RDS for storing vulnerability-related information.

* Identified vulnerability information sources and metrics, and explored existing vulnerability discovery techniques and technologies
* Designed a knowledge base for storing vulnerability-related information
* Developed an architecture for collecting information related to vulnerabilities from heterogeneous information sources to store in the knowledge base designed
* Built a rule based interface for users to query the vulnerability knowledge base using natural language.

<http://unsworks.unsw.edu.au/fapi/datastream/unsworks:51428/SOURCE2?view=true>

**Bachelor of Engineering - Computer Engineering (Honours)** Feb 2010 - Oct 2013

**University of Canterbury (UC), New Zealand**

**Final Year Research Project:** Developed a web based analysis tool to provide homeowners in New Zealand interested in installing an array of photovoltaic panels on their rooftop an approximation on the return of investment for their grid connected as well as water heating applications.

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**Experience**

**Software Developer** May 2020 - present

**New York State Department of Labor, Albany, United States**

**Project: Unemployment Insurance System Improvement Modernization (UISIM) -** Developing an Information Technology (IT) solution for the operation of Unemployment Insurance (UI) in the State of New York. It provides a total replacement for the core centralized UI business systems using modern IT technology.

* The system is split into 2 microservices - backend REST service and User Interface. The backend REST service is being developed in Spring and the User Interface is being written in Angular.
* I work on the frontend and backend of the system; in particular the Claims Management Initiative. Claims Management is functionally responsible for handling incoming Unemployment Insurance (UI) claims from the claimant (employee) or the employer, and determining eligibility for the claim, subject to various Business Rules. Building the application so that it is responsive on different browsers as well as mobile devices.
* Involved in writing Java API for Amazon Lambda to manage some of the AWS services.
* Implemented a Continuous Delivery pipeline with Docker, Jenkins, GitHub and AWS.
* Developed Java API to connect with AWS S3 Services for storing and retrieving data stored in the S3 buckets.

**Technologies:** Java, Angular, Spring Boot, Hibernate, JPA, DB2, Maven, Eclipse IDE, Javascript, JSP, JUnit, CSS3, HTML5, Git, AWS.

**Java Programmer** Aug 2019 - Apr 2020

**New York State Department of Health, Albany, United States**

**Project: Minimum Data Set for Nursing Facilities (MDS) -** Revamped a tool built to measure patient acuity in nursing facilities in New York State. The tool was previously written in Perl and was rewritten using Spring, JQuery, Javascript, Hibernate, and JPA.

* Implemented the existing functionality and added enhancements to the tool such as adding spring batch processing to load patient data into the database quickly and effectively, added roles to the application using Spring Security and allowing admin to change the layout of the home page from the tool itself
* Improved the look and feel of the user interface to make it more intuitive.
* Hands on experience with the AWS CLI and SDKs/API tools.
* Good knowledge on Amazon Web Services(AWS), Amazon Cloud Services like Elastic Compute Cloud(EC2).

**Technologies:** Java, Spring Boot, Spring Security, Hibernate, JPA, Oracle, Maven, Eclipse IDE, Weblogic Server, Javascript, JQuery, JUnit, CSS3, HTML5, Git

**Software Developer** Oct 2018 - May 2019

**Intone Networks, Hyderabad, India**

**Project: Ecommerce Store -** Implemented Java microservices: shopping catalog API and User Interface for an ecommerce store. The application consisted of 4 micro services: namely, the shopping catalog API, order processing API, user profile API, and User Interface. Each service was deployed individually and communicated with each other using Eureka.

* The shopping catalog microservice was a backend RESTful API to keep track of all the items in the store
* Created the data model containing tables, constraints, stored procedures, triggers in PostgreSQL
* Git was used to manage the source code of this project: tracking features, production releases, and fixing issues with the production code
* Developed unit test cases to test the Java microservices

**Technologies:** Java, JQuery, Spring Boot, Spring Security, Spring Web Services, Spring Cloud, Hibernate, JPA, Amazon RDS, Maven, Amazon EC2, Eclipse IDE, JUnit, Git

**Technical Consultant** Aug 2016- Mar 2018

**Mynd Initiative Incorporated, Sydney, Australia**

Non-for-profit organisation to promote awareness and understanding of mental health issues

* Looked after the Information Technology (IT) needs of the organisation
* Backed up data on the cloud
* Gave inputs on company policies related to the IT side of things
* Helped with the design of the company’s website.
* Actively took part in meetings to report the progress made on the IT side and took part in discussions held

**Technologies:** Python, Heroku, Wordpress, Moqups

**Software Developer** Apr 2014 - Aug 2015

**Google, Hyderabad, India**

**Project: Customised Dashboards -** Built dashboards for Digital Marketing Managers (DMMs) to help manage their advertising campaigns for DoubleClick Bid Manager

* Implemented customisable dashboards which DMMs could view as well as download as a report
* Dashboards containing charts and tables were created using JQuery, Javascript, CSS, and HTML5
* Metrics such as return on advertising spend (ROAS) for the dashboards were computed in Java using data obtained from Google Cloud SQL through Hibernate
* Conducted regular meetings with DMMs to gather feedback on the dashboards built: these meetings gave insight into what kind of metrics were useful to DMMs

**Technologies:** Java, Spring MVC, Hibernate, Google App Engine, Google Cloud SQL, JQuery, Javascript, CSS, HTML5, JDBC, Eclipse IDE, Piper

**Software Developer** Nov 2012 - Apr 2014

**Treshna Enterprises Ltd, Christchurch, New Zealand**

**Project: POS (Point-Of-Sale) Ticketing Interface** - Built an interface using the framework Spring to issue tickets directly from a POS at store fronts for an event ticketing company. Previously the event ticketing company only issued hard tickets for events, so by implementing this ticketing system the in-store transaction time was reduced as the payment terminal has an online integration and the number of tickets sold across stores was controlled for events especially for those with a limited number of tickets.

* Designed the interface in such a way such that the storefront team could effectively issue tickets to events for customers by keeping the number of fields to be filled out and the navigation to a minimum
* Provided a refund facility
* Implemented an email facility to send out an email of the tickets after issuing them and to reissue lost tickets
* Used JQuery to populate total amount the customer had to pay which was calculated using the data obtained from PostgreSQL
* Modified the existing data model in PostgreSQL by adding tables, foreign keys, constraints, and functions
* Used Git to manage the source code
* Designed the layout of the tickets issued
* Tested how all the components of the ticketing system (i.e. the solution, the storefront team, and POS) worked together and made changes according to the feedback received
* Built dashboards to keep track of sales statistics and insights
* Worked closely with the client during the project through on-site meetings, phone calls, and emails

**Technologies:** Java, Spring, JQuery, Hibernate, CSS, HTML5, PostgreSQL, Vim, Git, Apache

**Project: Online Booking System** - Developed an online booking system using Spring for the gym software GymMaster (<https://www.gymmastersoftware.com/>) whereby members of a gym could extend their membership, book and pay for classes and personal trainer sessions, and manage their gym schedule.

* Designed all the web pages of the booking system keeping the user in mind
* Implemented user login
* The booking system was integrated with payment APIs such as PayPal, and Stripe in a way such that once the third party vendor notified the booking system of a successful payment, PostgreSQL of GymMaster would be updated
* JQuery was used for the event handling such as displaying the total to pay and Bootstrap were used to designing the web pages
* Used Git to manage the source code
* Added test suites to test the functionality of the application

**Technologies:** Java, Spring, JQuery, Hibernate, HTML5, Bootstrap, PostgreSQL, REST, SOAP, Vim, Sublime Text, Git, Apache

**Intern/Embedded Software Engineer** Nov 2011 - Feb 2012

**ILR Limited, Christchurch, New Zealand**

**Project: Pellet Fire -** Added features to the control board of a pellet fire using C.

* Implemented safety features for faults such as temperature sensor error, over temperature, blocked exhaust passages, and vacuum problem
* Designed a proportional–integral–derivative (PID) controller to regulate the temperature and improve the fuel efficiency
* Implemented a weekly timer so that users can automate when to turn on, off, and set the temperature for the coming week
* Documented test cases

**Technologies:** C, Visual Studio