Venkatesh Ummadisingu

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Summary

Experienced developer with intermediate programming skills in Java and PL/SQL offering a proven ability to design, create, and maintain software applications based on customer needs.

Education

University of California, Irvine   Dec 2022
Master of Computer Science
Relevant Coursework: Operating Systems, Advanced Programming and Problem Solving, Intro to AI
National Institute of Technology, Calicut   Jun 2018
Bachelor of Technology in Electronics and Communication Engineering
Relevant Coursework: Data Structures and Algorithms, Computer Networks and Computer Architecture

Technical Skills

Languages: Java, PL/SQL, Python, C, JavaScript
Databases: Oracle
Version control tools: SVN, Git
Build Tools: Maven, Gradle

App Server Platform: Oracle WebLogic Server
Technologies/Frameworks: ReactJS, Spring, Spring Boot, Linux, JUnit, utPLSQL, SonarQube, Jupyter Notebook, Webservices, REST Services

Work Experience

Oracle Financial Services Software   Mar 2021 – Aug 2021
Staff Consultant   Bangalore, India
- Constructed upgrade strategy of Oracle Flexcube (Universal Banking Solution) to upgrade product data within 10 minutes. Developed database upgrade scripts in PL/SQL to synchronize product data of a legacy version with the latest version.
- Drove the DevOps (CI/CD) adoption process for 4 projects in JAPAC region by formulating setup processes for periodic deployment and release to production in Confluence pages.

Oracle Financial Services Software   Jul 2018 – Feb 2021
Associate Consultant   Bangalore, India
- Developed customized banking features and webservices using Java, JavaScript, and PL/SQL technologies with faster delivery to production following the Agile methodology.
- Reduced customer support tickets by more than 50% by adopting standardized code quality test procedures using utPLSQL, Junit, and SonarQube frameworks. Optimized the process of applying patches on Oracle Flexcube slashing the server downtime by 50%.
- Won the **Rising Star Award** for outstanding work in Oracle JAPAC Regional Projects in Sept 2020.

Academic Projects

Itinerary Planner | [View Project](#)
- Built a REST API using Spring Boot which takes destination and duration of itinerary as input and returns an itinerary of places based on open hours, time taken to travel and user ratings of the places.

Sentiment Analysis of Amazon Food Reviews | [View Project](#)
- Pre-processed data comprising of over 500K reviews employing Stemming and Lemmatization to clean and structure data. Utilized classification models such as Logistic Regression, XgBoost, Naïve Bayes, LSTM neural network to train model and compared performance.
- Achieved accuracy of 93% and F1 Score of 0.93 with a run time of less than 10 minutes.

Implementation of Shell, Page Table and System Call | [View Project](#)
- Built a simple shell program in C language to read, parse and executes Linux commands. Implemented support for io-redirection and pipes. Designed a page table in C language to map virtual memory to physical memory once booted into main function of xv6 operating system.
- Extended xv6 operating system with a new system call in C language which creates a new process by integrating functionality of fork and exec system calls as a single system call.

Smart trolley in Supermarkets | [View Project](#)
- Created a MySQL database to store data and programmed Atmega16 microcontroller and Wi-Fi module in C language to scan the RFID tags of items with an RFID reader and send/receive data to database.
- Designed a webpage using HTML, CSS, and PHP to print bill instantly once shopping is completed.

IoT Project on Smart Farming | [View Project](#)
- Collected data from various sensors and leveraged the Cloud Analytics data on Ubidots Cloud. Implemented an algorithm to suggest an irrigation plan for different crops based on cloud analytics.
- Secured **1st prize** in IoT Challenge 2016 under supervision of i3indya technologies in IIT Bombay.