VEDANT VENKATESH YELSANGIKAR

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EDUCATION

George Mason University - Master of science in Computer Science. GPA: 3.67/4. MAY 2024
Relevant Coursework: Distributed Systems, Analysis of Algorithms, Data Mining, Machine Learning, AWS, Embedded Systems.

JSS Academy of Education - Bachelor of Engineering in Computer Science. GPA: 3.2/4 AUG 2020
Relevant Coursework: Database Management, Web Programming, Data Structures, Operating Systems, UI/UX.

EXPERIENCE

ACCENTURE TECHNOLOGIES | ***Associate Application Developer, Java Full Stack*** JAN 2021 – JUL 2022

- Developed and implemented healthcare-related software with a strong focus on enhancing functionality and resolving customer issues. Utilized **Java** to Implement a re-certification feature to address failures and faults during the application process, **significantly enhancing usability while reducing user effort**.
- Developed and deployed Spring microservice API's that expedited the migration from SOAP-based architecture to **RESTful architecture**, **resulting in a 60% reduction in data transfer latency** and enhanced support for both XML and JSON formats, improving system performance.
- Implemented two robust fault policies to enhance the efficiency of fault handling during communications between multiple servers, thereby **improving retry performance by 100%** on **Oracle BPM Services**.
- Proficiently utilized SQL for database management, allowing for precise data retrieval and manipulation using Oracle-JDBC, thus contributing to the overall batch functionality and performance of the application.
- Conducted a rigorous analysis of test failures; code quality and functional coverage using SonarQube. Strategically developed and **improved test coverage by 80%** using the **JUnit** Framework and Maven Dependencies.

CENTRE FOR DEVELOPMENT OF TELEMATICS (C-DOT) | ***Technology Intern*** JUL 2019 - AUG 2019

- Enhanced Product's getAddress api functionality by integrating Spring MVC framework, improving performance and scalability of the application.
- Optimized Software Automation for the 'Wireless Access Controller (WAC)' application by effectively utilizing the **Selenium Automation Tool** and JUnit Framework, **successfully covering 80%** of the project's testing requirements.

UTTHUNGA TECHNOLOGIES PVT LTD | ***Software Developer Intern*** JUL 2018 – AUG 2018

- Embedded Systems' applications and conducted thorough assessments of two System communications, using Arduino Uno for precise and effective evaluation.
- Executed extensive function automation, **covering 75% of the website application**, ensuring compliance with the functionality testing prerequisites.

PROJECTS

C2C *(Python, ReactJs, Ansible)*

- Pioneered the development of a on-Premise to Cloud automation platform in Python and Flask showcasing comprehensive expertise in AWS services, Significantly reduced manual effort by automating the deployment on **AWS EC2** instances based on user preferences, demonstrating proficiency in EC2 instance management.
- Led **backend** development, crafting API's in Python and utilizing **Ansible** for hosting user-provided Git projects, streamlining the process of collecting project details and having knowledge in managing AWS S3 buckets for efficient storage and retrieval of project assets.
- Orchestrated the implementation of our own robust **CI/CD** system, demonstrating expertise in continuous integration and deployment. Utilized **Webhooks**, ensuring swift and automatic deployment.

Supply Chain Management of Pharmaceuticals - Blockchain *(Truffle suite, Web3Js, ReactJs, Ts, Flutter)*

- Developed a secure framework that tracks and validates products at every 'handshake' between registered participants, ensuring product delivery safety and **reducing latency by 80%** from the source to the consumer.
- Meticulously tracked product transactions by establishing smart contracts between nodes at each handoff. This innovative solution reduced counterfeit drugs within the pharmaceutical supply chain industry - awarded with the "best project of the year 2019".

Bias Mitigation in COMPAS Dataset *(Python)*

- Analyzed the ProPublica COMPAS investigation, uncovering racial bias in recidivism risk predictions by addressing bias through diverse data collection and model training to get the most accurate results.
- Implemented **Adaboost, K-Nearest Neighbors (KNN), and Random Forest** trials to assess algorithm performance. Achieved a significant accuracy improvement with **Linear Regression** consistently delivering results within the **72%-74% range**, outperforming the other algorithms.

VectoRent *(Reactjs, OracleDB, Java, HTML5, Figma)*

- Developed a website where anyone can rent 'anything' possible on Request basis. Designed and implemented RESTful endpoints using Spring MVC framework, adhering to RESTful principles for resource naming and HTTP methods.
- Implemented the front-end using **React.js**, ensuring a responsive and user-friendly interface for an optimal user experience.
- Developed a robust back-end infrastructure using **Spring MVC** and **OracleDB** database for efficient data transfer, ensuring a smooth and reliable user interaction.

SKILLS

- **Languages:** Java, Core Java, Python, JavaScript, C, HTML5, CSS, Bootstrap, JSP.
- **System Design:** High-Level Design, Distributed Systems.
- **Frameworks:** ReactJs, J-query, Spring, Spring-Boot, Figma, Adobe XD, Flutter.
- **Databases:** Oracle SQL, SQL Server, MySQL.
- **Other:** Amazon Web Services, Git, JIRA, Jenkins, S3, EC2, API Gateway, Ansible.