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 a microservices-based API that expedited the migration from SOAP to REST Web services, **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 functionality and performance of the application.
- Conducted a rigorous analysis of test failures, code quality, and functional coverage. Strategically developed and **improved test coverage by 80%** using the JUnit Framework and Maven Dependencies.

CENTRE FOR DEVELOPMENT OF TELEMATICS (C-DOT) | *Intern* JUL 2019 - AUG 2019
- 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.
- Generated a Document of Automated test cases including 45+ test scenarios and scripts.

UTTHUNGA TECHNOLOGIES PVT LTD | *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, significantly cutting down manual effort by automating the deployment of AWS instances based on user preferences.
- 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 enhancing the efficiency of version-controlled code management.
- Implemented an automated CI/CD system where repositories trigger webhooks upon detecting new commits. This seamless integration ensures swift and automatic deployment, streamlining the development process and enhancing overall efficiency.

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 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.

EnviroGuard: Smart Living Ecosystem *(Python)*
- Developed a project that brought together Temperature monitoring, Home security, and Lighting control, seamlessly enhancing the quality of everyday life.
- Developed a user-friendly interface that resulted in ease of use by 15energy-efficient living environment, setting a new benchmark for smart home solutions.

VectoRent *(Reactjs, MYSQL, NodeJs, HTML5, Figma)*
- Developed a website where anyone can rent 'anything' possible. Solving towards the Problem where unused items can be listed by owners so that users in need can 'Rent, Use, Return' - Request Basis.
- Developed a robust back-end infrastructure using Node.js and MySQL 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:** Git, JIRA, Jenkins, S3, EC2, API Gateway, Ansible.