

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 (AWS, 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 of 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 a 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 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, Machine Learning)

- 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, 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.
- 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 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:** AWS, Git, JIRA, Jenkins, API Gateway, Ansible.