Tejas Vaity

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Software Developer with 3.5 years of experience in Java (backend) and Angular (frontend), building scalable web applications with a focus on robust, intuitive and high performance solutions.

Education

University of Michigan, MS in Computer and Information Science (GPA-3.88) Sep 2024 to May 2026

Experience

Research Assistant, University of Michigan - Michigan, USA May 2025

- Optimized the CPS system using Docker by introducing new techniques and rules to enhance performance and maintainability.
- Assisted in software research and quality assurance for MLOps projects including a GitHub repository analysis tool with advanced search, commit filtering, and reporting, and with CI/CD integration (GitHub Actions, Jenkins) to automate test case creation, detect inefficiencies, and enhance performance, reliability.

Full Stack Developer, NSEIT – Mumbai, India Feb 2022 to Jul 2024

- Architected and developed a high-performance, real-time trading platform using Java, Spring Boot, Angular, and Apache Kafka.
- Optimized system performance by 20% and achieved a 30% reduction in latency.
- Designed and implemented a scalable, responsive front-end web application using HTML5, CSS3, JavaScript, and TypeScript. Enhanced user experience and increased system uptime by 10%.
- Optimized real-time data processing and streamlined system integrations leveraging Microservices architecture, Design Patterns, Object-Oriented Programming(OOP) principles, RESTful APIs, and Socket Programming.
- Deployed on Linux servers with Tomcat using a CI/CD pipeline via Jenkins.
- Improved data retrieval speed by 25% by implementing Redis caching and optimizing database queries.
- Led and mentored a 6-member agile development team. Managed the full software development lifecycle(SDLC) from planning and execution to delivery.
- Gained proficiency in building and optimizing trading systems using C programming and shell scripting, strengthening a versatile skill set across various programming paradigms.

Software Frontend Developer, Faclon Labs – Mumbai, India Oct 2021 to Feb 2022

- Enhanced UI with Angular Material, improving tables and graphs for intuitive data visualization.
- Resolved 95% of system issues within 24 hours, boosting system reliability and client satisfaction while refining web services performance.
- Boosted code efficiency by 20% using design patterns and modern development tools.

Project Engineer, Wipro Limited – Mumbai, India Mar 2021 to Sep 2021

- Analyzed system requirements to create test cases and documented defects found during the software development process, focusing on quality assurance for a banking application.
- Provided team support alongside testing to maximize software reliability and performance.

Technologies

Programming Languages: Java, C, Python, JavaScript, TypeScript, HTML, CSS, Python, Shell Scripting, Node.js
Frameworks: Angular, React, Spring Boot, Spring Security, Spring JPA, Spring MVC, Spring Cloud, Bash, Nest.js
Databases: SQL Server, Oracle, MySql, Postgres, Redis, MongoDB
Tools: Apache Kafka, Tomcat, Jenkins, AWS, Android Studio, Docker, Jenkins, Jupyter Notebook
Operating System: Linux/Unix, Windows | **Version Control:** SVN, Git | **IDE:** Eclipse, Visual Studio code

Projects

Penny Buddy - Build user-facing dashboards for real-time financial data visualization using Nest.js and Plaid API, implementing responsive design principles and design patterns.
BrickWise - Developed a real estate web application using the MERN stack, enabling users to list properties for rent or sale, integrated with interactive maps and a real-time chat system.
Retinal Disease Classification - Developed and optimized deep learning models using Convolutional Neural Networks(CNNs) and TensorFlow/Keras for binary and multi-class retinal disease classification. On the RFMiD dataset implemented advanced techniques, including transfer learning, data augmentation, and image preprocessing.