

RAJ VENKAT REDDY MAVURAM

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EDUCATION

Purdue University - West Lafayette

Master of Science in Computer Science

Jan 2023 – Dec 2024

West Lafayette, Indiana

EXPERIENCE

Software Developer, Purdue University, West Lafayette, Indiana

May 2023 – Dec 2024

- Collaborated with researchers and professors to develop a full stack web application leveraging **React, JavaScript (ES6+), HTML, and CSS**; optimized UX/UI elements using lazy loading.
- Defined API endpoints using **FastAPI**, ensuring seamless communication between front-end and back-end systems and improving system reliability.
- Maintained database schemas in **PostgreSQL**, implementing indexing to reduce average querying time by 40%.
- Orchestrated the integration of a workflow analyzer on **AWS**, employing EC2, CloudWatch, and RDS to ensure end-to-end visibility into system performance and seamless collaboration across teams.

Software Engineer II, Oracle, Hyderabad, India

Jan 2022 – Dec 2022

- Developed features for OPERA Cloud, a SaaS hospitality platform, using Oracle ADF, ADF Faces, and Task Flows. Integrated Java EE with ADF Business Components (BC4J) for seamless data binding, contributing to **\$2M** in revenue.
- Designed 5 front-end workflows with OJET, creating technical design documents, and building reusable components to shorten development effort by **80** person-hours weekly.
- Configured CI/CD pipelines using GitLab to deploy UI and WS servers as **Docker** containers on a **Kubernetes** cluster, implementing containerization and integrating DevOps best practices to achieve **99.9%** uptime with horizontal scalability.
- Built 8 RESTful APIs for guest profile creation and management using **Java EE** and **JAX-RS**, ensuring modularity for scalability and optimizing SQL queries to improve read performance by **25%**.
- Optimized **REST API** performance by analyzing SQL execution plans, identifying slow-running queries, and reducing latency by **30%**, leading to faster customer check-in processes during peak booking hours.
- Developed and executed **Selenium** scripts in Java for end-to-end automation testing of UI workflows, improving test coverage and reducing regression failures in production by **100 hours per release cycle**.
- Mentored three interns via structured onboarding program and knowledge-sharing sessions on OPERA Cloud architecture, REST APIs, code review techniques, and best coding practices.

Software Engineer, Oracle, Hyderabad, India

Jan 2021 – Dec 2021

- Led the development of 6 guest-facing workflows, customizing features and functionalities, collaborating with cross-functional teams across the end-to-end product lifecycle, resulting in a **20%** boost to customer satisfaction scores.
- Enhanced guest profile management and loyalty workflows using Oracle ADF's Task Flow-based MVC architecture, reducing profile creation time by 50%, improving responsiveness across **10,000+** monthly interactions.
- Refactored SQL queries and PL/SQL stored procedures in Oracle 19c using SQLDeveloper, improving execution speed by **35%** through aggregations, join optimizations, enhancing guest reservation data retrieval speed during check-in/out.
- Maintained unit tests for REST APIs using **TestNG**, improving test reliability and reducing debugging time by **70%**, allowing faster QA turnaround and higher deployment confidence.
- Excelled in a fast-paced Agile Scrum environment, utilizing JIRA for sprint planning, task tracking, and bug resolution.
- Utilized tools such as JDeveloper (IDE), Chrome DevTools (debugger), Jenkins (build tools), and Git (source control) to streamline daily development tasks, strengthening code quality and version control practices.

SKILLS

Languages: Python, Java/J2EE, JavaScript, C++, SQL, Bash, TypeScript, Go (GoLang).

Frameworks/Libraries: React, Next.js, Spring Boot, Django, Flask, Vue.js, jQuery, Kubernetes, Apache Kafka.

Databases: Oracle, MySQL, MongoDB, PostgreSQL, DynamoDB.

Tools: Jira, Git, Postman, Docker, Jenkins, Eclipse, JDeveloper, SQLDeveloper.

Software Development: AWS, GCP, Microservices, Object-Oriented Programming, Design Patterns, Linux, Web services.

PROJECTS

- Personal Blog | React | Node | MongoDB | Google Cloud Platform (GCP) | Firebase | Axios.**

Created a Personal Blog using React and Node.js, integrating MongoDB for data storage and Firebase for authentication and hosting on Google Cloud Platform (GCP). Implemented seamless API communication with Axios, enabling efficient data retrieval and updates.

- Task Management System | Spring Boot | Maven | Spring JPA | MySQL.**

Developed a scalable task tracking system featuring real-time analytics and role-based access control. Leveraged OOP principles and optimized MySQL queries. Tracked 1000+ tasks across 100+ users.