

# RAJ VENKAT REDDY MAVURAM

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## EDUCATION

### Purdue University

Master of Science in Computer Science; CGPA: 3.43/4.0

Jan 2023 – Dec 2024

West Lafayette, Indiana

### Vasavi College of Engineering

Bachelor of Engineering in Computer Science and Engineering; CGPA: 9.63/10

Jul 2017 – Aug 2021

Hyderabad, India

## EXPERIENCE

### Purdue University

May 2023 – Dec 2024

Web Developer

West Lafayette, Indiana

- Contributed to the development of a scalable website utilizing **Next.js**, **Tailwind CSS** and **Framer Motion** for the Purdue School of Languages and Cultures, enhancing user experience and achieving a 30% improvement in page load times.
- Built and maintained complex database schemas in **PostgreSQL**, incorporating indexing and query optimization techniques to reduce average query execution time by 40%, ensuring efficient data retrieval for high-traffic operations.
- Developed API endpoints using **FastAPI**, ensuring seamless communication between the front-end and back-end systems, resulting in a 15% increase in system reliability.

### Oracle India Pvt. Ltd

Jan 2021 – Dec 2022

Software Engineer 2

Hyderabad, India

- Engaged in comprehensive development and enhancement of Oracle's leading hospitality product, **OPERA Cloud**, generating a total of **\$1.6 million dollars** in revenue.
- Designed UI workflows utilizing **Oracle JET**, **React** and **JavaScript**, collaborating with cross-functional teams to enhance efficiency and scalability.
- Envisioned and developed **20** back-end APIs using **SQL** and **PL/SQL**, modularizing back-end application code to improve end-to-end operations and maintainability.
- Boosted the performance of REST APIs by **15%** by caching, query optimization, and predictive throttling strategies.
- Wrote over **25,000** lines of code in Java, SQL, JavaScript, and XML while developing and enhancing the OPERA Cloud application and associated services.
- Architected and deployed microservices-based solutions for OPERA Cloud, ensuring horizontal scalability and a **99.9%** uptime, leveraging Kubernetes.
- Implemented a cloud-based test management tool on **AWS**, focusing on scalability and reliability, utilizing services like **EC2**, **S3**, and **RDS** to ensure seamless collaboration and data integrity.

Software Engineer 1

- Developed and integrated a new design pattern-based approach for booking functionality, which streamlined the reservation process for users, leading to the completion of over **10,000** reservations per month through the interface.
- Developed and optimized complex SQL queries and stored procedures for relational databases like **MySQL/PostgreSQL** by adding indexes, refactoring joins, and implementing aggregations.
- Efficiently utilized tools such as **IntelliJ** (IDE), **Chrome DevTools** (debugger), **Maven** (build tools), and **Git** (source control) to streamline daily development tasks, enhancing code quality and version control practices.
- Mentored a team of five junior engineers, establishing a structured onboarding program and conducting knowledge-sharing sessions on microservices, cloud architecture, and best coding practices.

Software Engineer Intern

- Worked in a fast-paced CI/CD **Kanban** environment, actively participating in feature development and bug resolution within **Agile Scrum** software development life cycle (**SDLC**) methodologies.
- Employed **JUnit** to redesign Oracle's internal API unit testing, reducing testing and debugging time by **70%**.
- Minimized bug backlog by **35** issues, the highest reduction among all interns in 2021, improving product stability.

## SKILLS

- Languages:** C++, Java/J2EE, Python, JavaScript (ES6+), TypeScript, SQL, Go, HTML5, CSS.
- Databases:** Oracle, MySQL, MongoDB, PostgreSQL, Query Optimization, Indexing, GraphQL, T-SQL.
- Tools:** Jira, Postman, Git, VSCode, SQLDeveloper, Jenkins.
- Frameworks:** React, Next.js, jQuery, Docker, Kubernetes, Django, Java Spring Boot, Express.js, Node.js.
- Software Development:** Design Patterns, Web services, Amazon AWS (EC2, S3, RDS, DyanmoDB), Azure, Google Cloud Platform (GCP), Agile Methodologies, API Development, Apache Kafka, Microservices, Linux.

## PROJECTS

- Personal Blog | React | JavaScript | MongoDB | Google Cloud Platform | Firebase.**

Built a React-based full-stack application with Firebase for secure authentication, MongoDB for articles and comments management, and Axios for API integration. Deployed on Google Cloud Platform and utilized custom React hooks for session management, supporting 200+ users.