

Praneeth Reddy Penugonda

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Education

San Jose State University | San Jose, CA
Master of Science in Computer Software Engineering

Aug. 2023 - May 2025
GPA: 4.00/4.00

Technical Skills

Front-end: React, Redux, HTML5, CSS3, JQuery, GraphQL	Languages: JavaScript, Python, Java, Python, Unix, C/C++
Back-end: Node.js, REST API, Kafka, Flask, Spring Boot	Cloud: AWS(EC2,S3,IAM,RDS,Lamda), Azure, GCP
Database: MySQL, MongoDB, Oracle, Redis, SQLite	DevOps: Git, Jenkins, Docker, Kubernetes
Testing: Selenium, TestNG, Cucumber, Mocha, JUnit	Others: JIRA, Apache Hadoop, Cuda, Generative AI

Professional Experience

Software Development Engineer Intern

April 2022 - July 2022

MOBISPRINT CONSULTING PRIVATE LIMITED

Hyderabad, IN

- Utilized the **MVC** framework for application development to distribute tasks among Models, Views, and Controllers. Additionally, it facilitates stateless development.
- Implemented advanced automated test cases using **POM** pattern, **Cucumber**, and **TestNG** to support **Behavior-driven development (BDD)**. Applied DevOps and Agile methodologies to containerize and deploy microservices in a **Kubernetes** cluster via a **Gitlab CI/CD** pipeline, achieving a **30%** improvement in system response times.

Software Engineer Intern

Aug. 2021 - Jan. 2022

MOBISPRINT CONSULTING PRIVATE LIMITED

Hyderabad, IN

- Enhanced a responsive and cross-compatible educational platform using the **MERN** stack, Substituting an outdated application led to a **35%** improvement in performance optimization.
- Guided **UI mockup** translation, integrated **third-party** React libraries, and managed **Redux** for a user-friendly platform.
- Implemented the educational data migration of 8 tables, and **4,500,000** records from **MySQL to MongoDB**, resulting in a **30%** reduction in response time.
- Created customized **Jenkins** pipeline scripts for building, testing **Docker** images, and deploying updates, resulting in a **25%** enhancement in delivery efficiency.
- Enforced **Test-Driven Development(TDD)** in backend development for reliability, reducing manual work to **40%**.

Software Engineering Intern

May 2020 - Sept. 2020

OXYLATOR TECHNOLOGIES

Hyderabad, IN

- Built a **microservices**-driven e-commerce platform with **Node.js**, **Express.js**, and **GraphQL**, achieving a **30%** boost in overall performance and speed.
- Developed testing frameworks utilizing **Selenium**, automating the testing process and leading to a **25%** decrease in bugs.
- Incorporated **Apache Kafka** with the **ELK (Elasticsearch, Logstash, Kibana)** stack for test result and log analysis.
- Dockerized and deployed a standalone recommendation system on Kubernetes, achieving a **30%** faster response and **20%** better resource utilization via horizontal autoscaling and performance optimization.
- Participated in daily **stand-up** meetings, collaborated with the QA team, and employed **Agile methodologies** throughout the software development life cycle (**SDLC**).

Projects

MovieTheater Club application | *React JS, Node JS, APIs, MongoDB, AWS services EC2*

- Led the full-stack development of a client-server architecture movie ticket booking site, collaborating with a 4-member Agile team to implement CRUD operations, host on **AWS EC2** with autoscaling and load balancing, and deploy the frontend on Vercel, resulting in a seamlessly operational and scalable platform.

Consistent Hashing using Apache Arrow Flight | *TypeScript, Python, Flask, MongoDB, Next.js, Docker*

- Designed a *distributed data system* in **Python** with **Flask** and **MongoDB**, leveraging a hash ring for uniform data distribution and **Apache Arrow Flight** for efficient server communication. Enabled scaling and deployed a Dockerized frontend for visualizing data distribution, resulting in a robust and scalable solution.

Automated Book Locator using Pi | *PHP, jQuery, Bootstrap, Django, SQLite, Python, Raspberry Pi*

- Developed a *web app* using **Cloudflare**, **Nginx**, and **Django** Rest Framework for the back-end, with **PHP** and **jQuery** for the frontend. Integrated Raspberry Pi via DRF for book location and light triggering.

Achievements and Activities

Completed IBM's **Generative AI** for Software Developers Specialization, enhancing skills in AI development.

Published *A Study on Modern Methods for Detecting Mobile Malware* in the IRJET, 2022.

Adobe Student Ambassador at San Jose State University.