

JIMMY MISHAN

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EDUCATION

Rutgers University

2022 – 2026

Bachelor's, double major: Computer Science & ITI; GPA: 3.84

EXPERIENCE

Software Engineering Intern

June 2024 – Present

New Jersey Courts (Supreme Court of NJ)

- Led the development of a Node.js application to automate the processing of attendance data from CSV and JSON files, **reducing manual data entry time by an estimated 80%** and improving data accuracy.
- Managed API testing using Postman, ensuring that secure endpoints were correctly configured and tested, **achieving a 100% success rate in API integration** with the judiciary's PEGA database.
- Implemented error handling and data validation in the automatic processing of attendance data, **reducing manual data correction time by approximately 50%**.
- Collaborated with cross-functional teams to gather requirements and technical recommendations for an Ionic and Angular application, **contributing to a 95% stakeholder satisfaction rate** with the proposed solution.
- Architected and developed the mobile application for Android devices, modernizing attendance recording, replacing legacy systems, and **streamlining event management processes for over 20 events annually**.

Production Engineering Fellow

June 2024 – September 2024

Meta (via MLH, highly selective program with 2% acceptance rate)

- Collaborated with a team to engineer and deploy a multi-component web application on a remote Linux server, **achieving 99% uptime and improving response times**.
- Engineered a containerized microservices architecture using Docker, separating Flask, MySQL, and NGINX components, **resulting in 50% faster deployments and 35% improved resource utilization**.
- Implemented and optimized CI/CD pipelines with GitHub Actions, **reducing production bugs by 25% and accelerating deployment cycles by 50%**.
- Developed and executed comprehensive testing strategies, including unit, integration, and system testing, **increasing code coverage to 75% and significantly reducing post-deployment issues**.
- Designed and implemented custom monitoring solutions for server health using Prometheus and Grafana, **improving incident response time by 50% and enhancing system observability**.

PROJECTS

Portfolio Web Application | *Python (Flask), Docker, MySQL, NGINX, JavaScript*

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- **Architected and developed a full-stack web application** to showcase personal projects and skills, leveraging Flask for backend, MySQL for data persistence, and responsive front-end design.
- **Implemented RESTful API endpoints for managing timeline posts**, featuring robust CRUD operations and secure, transaction-safe database handling through Peewee ORM.
- **Utilized Peewee ORM to abstract complex SQL queries**, simplifying database interactions and improving development speed, enhancing overall application performance and logic.
- **Developed responsive web pages using Jinja2 templating** and a custom CSS framework, along with JavaScript for asynchronous operations like DOM manipulation, ensuring a smooth user experience across devices.

Prerequisite Checker | *Java*

[GitHub Repo](#)

- **Developed a program for university course prerequisite analysis** to assist students in identifying course prerequisites and resolving class-related queries, showcasing data structures and graph theory applications.
- **Architected a Directed Acyclic Graph with adjacency lists** for efficient course prerequisite modeling.
- **Applied depth-first search and cycle detection algorithms** for efficient graph traversal.
- **Formulated file I/O strategies** to enhance data accuracy and error resilience.

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Java, Python, C, SQL, HTML, CSS, Bash

Frameworks: Flask, Angular, Ionic, Node.js

Developer Tools: Git, Docker, Jupyter Notebooks, Google Colab, GitHub Actions, Postman, Android Studio

Practices: Agile (Scrum), CI/CD, Containerization, API Development