

# JIMMY MISHAN

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## EDUCATION

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### Rutgers University

2022 – 2026

*Bachelor's, Double Major: Computer Science & ITI; GPA: 3.84*

## EXPERIENCE

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### 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.
- Implemented error handling and data validation in the automatic processing of attendance data, **reducing manual data correction time by approximately 50%**.
- Architected and developed an Android mobile attendance application using Ionic and Angular, designed to replace legacy hardware solutions and **streamline event management processes for 20+ events annually**.
- Managed API testing using Postman, ensuring that secure endpoints were correctly configured and tested, **leading to a 100% success rate in API integration** with the judiciary's PEGA database.
- Actively participated in SCRUM development processes, contributing to sprint planning and retrospectives for 6+ concurrent projects.

### Production Engineering Fellow

June 2024 – September

*Meta (via MLH, elite program with 2% acceptance rate)*

- Collaborated with a team to engineer and deploy a multi-component web application on DigitalOcean, **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

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### Prerequisite Checker | Java

[GitHub Repo](#)

- Developed a Java 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 DAG 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.

### Personal Website | HTML, CSS, JavaScript

[jimmymishan.com](http://jimmymishan.com)

- Engineered and deployed a personal website serving as a portfolio to showcase software engineering abilities and web development expertise.
- Utilized DOM for dynamic content, CSS for animations, and asynchronous JavaScript for real-time functionality.
- Integrated LinkedIn, GitHub, and Calendly for enhanced professional networking and scheduling.

## TECHNICAL SKILLS

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**Languages:** JavaScript (Node.js), 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

**Database Systems:** MySQL, SQLite

**Practices:** Agile/Scrum, CI/CD, Containerization, API Development