

JIMMY MISHAN

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EDUCATION

Rutgers University

2022 – 2026

Bachelor's, double major: Computer Science & ITI; GPA: 3.90

EXPERIENCE

Software Engineering Intern (Data Infrastructure)

May 2025 – August 2025

Meta

- Designed a production-scale throttling validation harness (**10M+ messages/hour**, about **2%** of service throughput) to pre-validate rule-based decisions; shipped **152 tests** with **more than 70%** coverage.
- Centralized throttling configuration with generators/validators and daily drift detection/alerting, **eliminating 100%** of manual updates and reducing operator overhead.
- Restored observability for a core metadata access library by fixing a systemic logging gap (previously no logs), cutting duplicate logging code by about **75%**; restored **9 dashboards** and exposed percentile latency (p50/p95/p99) and throughput.
- Automated scheduled validations via CI/CD and a distributed scheduler; published runbooks/templates and alerts for missing client configurations used by on-call.

Software Engineering Intern

June 2024 – May 2025

New Jersey Courts (Supreme Court of NJ)

- Automated attendance ingestion in Node.js: validated CSV/JSON, reason-coded invalid rows, and posted clean records to a **case-management platform**—replacing about **80%** of manual processing per event; serial posting about **300 records/min** with approximately **200 ms** per record.
- Designed an Android (Ionic/Angular) QR-scanning app with about **1 second** duplicate suppression, offline queuing with resend-failed-only, password-gated admin actions, and atomic file updates—enabling direct tablet capture and removing post-event aggregation.
- Engineered data-integrity safeguards:** per-record posting with retry and reason-coded logs, atomic temp-file swap to prevent corruption, and resend-failed-only logic to avoid uploading duplicate

Production Engineering Fellow

June 2024 – September 2024

Meta (via Major League Hacking, highly selective program with 2% acceptance rate)

- Operated a Dockerized Flask/MySQL/NGINX stack behind a TLS reverse proxy with IP-based rate limiting (**1 request/minute**, burst=1); sustained **100+ concurrent requests** in tests and **99.5%** observed uptime; set alert thresholds from load-test baselines to reduce time-to-detect.
- Implemented CI/CD with GitHub Actions and E2E cURL tests; **near-daily deploys**; reduced CI build duration by about **50%** via Dockerfile layering, cutting deployment lead time and increasing release velocity; Discord notifications for runtime alerts and CI outcomes.

PROJECTS

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

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- Internet-facing portfolio with a timeline CMS: REST API for posts, session-based admin workflows (login/logout, protected delete), responsive UI; validated SEO/social previews (OpenGraph).
- Feature-level tests (**12**) for UI rendering, input validation, auth flows, and reverse-chronological ordering

Prerequisite Checker | Java

[GitHub Repo](#)

- Course prerequisite analysis using a DAG (adjacency lists), DFS traversal, cycle detection, and robust file I/O.

TECHNICAL SKILLS

Languages: Python, Java, JavaScript/TypeScript, C, SQL, Bash

Frameworks: Flask, Node.js, Angular, Ionic

DevOps/Tools: Linux, Docker, NGINX, GitHub Actions, Prometheus, Grafana, Alertmanager, Postman, Android Studio, Git

CERTIFICATIONS & AWARDS

TestOut Linux Pro — Verified

MLH Top 50 (2025) Nominee — recognition among MLH's 150k+ hackers for impactful contributions; [Profile](#)