

Mohammad Taufique Imrose

Email: taufiqsaimun@gmail.com LinkedIn: [linkedin.com/in/taufiqimrose](https://www.linkedin.com/in/taufiqimrose) GitHub: github.com/Taufiqimrose Portfolio: imrose.dev

SUMMARY

Full-stack software engineer specializing in AI-powered product development, LLM integration, and agentic pipeline architecture. Experienced building production-grade applications with React, Next.js, Node.js, TypeScript, and Spring Boot, with deep expertise in RESTful API design, SQL performance optimization, and cloud infrastructure on AWS. Proven track record delivering scalable systems in regulated domains including government technology, EdTech, and immigration automation.

TECHNICAL SKILLS

Languages: Java, Python, SQL, JavaScript (ES6+), TypeScript

Frameworks: React 19, Next.js 15, Node.js, Spring Boot, Angular, Express, LangChain

AI / LLM: Anthropic Claude, OpenAI GPT-4o, Vercel AI SDK, Landing AI agentic-doc, SSE Streaming

Databases: PostgreSQL, MariaDB, MongoDB, Supabase

Cloud and DevOps: AWS (EC2, S3, Lambda, ECS Fargate, Secrets Manager, RDS Proxy), Docker, GitHub Actions

Testing and Observability: Jest, React Testing Library, Playwright, Sentry, Winston

WORK EXPERIENCE

Full-Stack Software Engineer OsaaS LLC | Sacramento, CA

Jan 2026 - Present

- Reduced query execution time by 40% via MariaDB schema redesign, indexing, and optimization
- Improved API response time by offloading background processing to AWS Lambda workflows
- Reduced production error rates through robust input validation and structured exception handling
- Sustained high-concurrency throughput via execution plan analysis and schema normalization
- Refactored Node.js Lambda handlers to a buffered logging pattern, reducing CloudWatch ingestion costs

Software Engineer I Algorizin Inc. | New York, NY

Aug 2025 - Jan 2026

- Built MigrateEasy, a full-stack immigration platform increasing user task efficiency by 30%
- Improved data retrieval speed and reliability by designing RESTful APIs for core workflows
- Reduced mean time to resolution by integrating structured logging and Sentry error tracking
- Cut regression bugs by building comprehensive unit and integration tests with Jest
- Architected modular Express middleware layers for authentication, validation, and error handling

Software Engineering Intern CA Dept. of Technology | Rancho Cordova, CA

Dec 2023 - Dec 2024

- Improved application performance by 30% via code splitting and lazy loading in React and Next.js
- Resolved over 50 critical cross-browser bugs through rigorous QA testing across environments
- Designed RESTful APIs to streamline data exchange across government-facing applications
- Launched a ServiceNow platform automating internal workflows across state departments
- Improved developer productivity by establishing reusable React component libraries and shared utilities

PROJECTS

Multi-Family Portal OsaaS LLC

Jan 2026 - Present

- Implemented UI changes across the full application, aligning with business and design standards
- Built an Aging Report dashboard against stakeholder SLA requirements with optimized MariaDB queries
- Implemented role-based access control and permissions in Spring Boot, securing data across user tiers
- Built transactional email templates and notification workflows, improving communication reliability
- Resolved MariaDB JSON escaping issues that caused silent data corruption in production

CalAssist Mortgage Fund OsaaS LLC

Jan 2026 - Present

- Rebuilt the Aging Report with optimized queries and indexing, cutting report generation time
- Engineered business-day SLA logic accounting for weekends and federal holidays at the DB level
- Built SQL queries aggregating live application status data across disaster relief programs
- Replaced AWS Transfer Family with ECS Fargate SFTP, eliminating per-connection transfer costs
- Integrated Secrets Manager and singleton connection patterns for RDS Proxy compatibility

Schedia Study Buddy (NoteVision) Private Repo

Oct 2025 - Present

- Built an AI agent pipeline parsing scanned PDFs into interactive web UIs with no manual formatting
- Delivered live progress updates via SSE streaming between FastAPI backend and Next.js frontend
- Generated structured study guides from raw lecture notes, organizing content into digestible sections
- Built an adaptive quiz engine that generates exam-prep questions from uploaded course material
- Delivered on-demand concept explanations and deadline prioritization through LLM-powered responses

uni-scrapers-pipeline github.com/Taufiqimrose/uni-scrapers-pipeline

Feb 2026 - Mar 2026

- Built a Plan-Execute-Observe agentic loop to extract degree requirements from any university catalog
- Designed a normalized PostgreSQL schema with async validation for type-safe course persistence
- Abstracted extraction logic to support any university without site-specific hardcoding
- Enforced responsible scraping with robots.txt compliance, rate limiting, and token budget tracking

GuideCode Private Repo

Sep 2025 - Oct 2025

- Built a full-stack AI project generator taking users from idea to deployable architecture spec
- Conducted conversational requirements interviews via GPT-4o to produce architecture and feature specs
- Generated Cursor-compatible task prompts from project specs, accelerating developer execution
- Built a UI/UX Design Agent with drag-and-drop decision history and duplicate-detection

EDUCATION

B.S., Computer Science Cal State Sacramento | Sacramento, CA
 GPA: 3.89 / 4.00 | Dean's Honor List, 2021-2025

Aug 2021 - May 2025

ACTIVITIES

VP, Community and Campus Relations Sacramento State Alumni Association

May 2023 - May 2025

- Increased student involvement by fostering connections between current students and alumni
- Planned and executed campus events that successfully brought together students and alumni communities
- Collaborated with university departments to align alumni engagement initiatives with campus priorities

Vice President Scintilla Science Club | St. Joseph Higher Secondary School

Aug 2019 - Jun 2020

- Organized and coordinated club events, managing logistics and ensuring successful execution
- Secured sponsorships from external partners to fund club events and expand program reach
- Grew club membership by promoting events across campus channels and student networks

Varsity Esports Athlete (Valorant) Sacramento State Esports

Sep 2021 - May 2022

- Placed 3rd in the NECC Valorant Championship competing against top university teams across North America
- Represented Sacramento State in structured collegiate league play throughout the season
- Collaborated with teammates to develop communication and strategic decision-making under pressure