

SALONI GANDHI

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WORK EXPERIENCE

Astral Trading Inc., Maryland, USA

Jun 2025 – Present

Software Developer Intern | C++, Python, AWS, Kafka, Git

- Built a multithreaded real-time trading engine in **Python, Kafka, & AWS SQS** to ingest high-frequency market data; reduced strategy reprocessing time from **2 mins to sub-ms latency** & improved throughput by **40%**.
- Implemented distributed strategy orchestration and optimized trade execution using **Python and C++**, integrating with **REST APIs** and **Grafana** to ensure observability, fault-tolerance, and **99.9% production uptime**.

Union Bank of Switzerland (UBS), Pune, India

Jun 2021 – Jul 2024

Software Developer | Java, Python, Cucumber, Shell, SQL, Jenkins

- Designed and implemented a **CI/CD** automation framework using **Java, Cucumber & Shell** scripts, enabling seamless execution of **1,000+ regression test cases per cycle**; accelerated issue detection & boosted overall system reliability.
- Automated ETD (Exchange-Traded Derivatives) flow validations across **7 APAC exchanges** (HK, AU, JP, SG, IN, KR and CN), reducing manual QA efforts by **95% and saving 10+ person-days per test cycle** through end-to-end pipeline integration.
- Developed an intuitive **Python-based** log aggregation tool for order audit trails across distributed servers; standardized and used monthly by **50+** teams to streamline root-cause analysis and compliance checks.

Software Developer Co-op | Java, VueJS, SQL

- Streamlined **Java-based dashboard** to visualize **10,000+** weekly operational data points, which enhanced data accessibility for team members and reduced report generation time by approximately **15+ hours per week**.
- Structured and executed a **VueJS-powered** interface with **Java backend** to parse and validate FIX protocol messages, increasing data integrity and reducing transaction mismatches by **95%**.

Software Developer Intern | JavaScript, Shell, UI Design

- Engineered a self-service portal 'Digi TOC' (a generic workflow automation tool to improve **Mean Time to Resolution**) for common IT requests, resolved **90% of Tier-1 tickets** without human intervention, significantly enhancing user experience.
- Eliminated manual operations, cut SME dependency by **60%** and enabled full auditability of automation workflows.

Savitribai Phule Pune University, Pune, India

Apr 2020 – Nov 2020

Software Developer Intern | Node.js, MongoDB, Express, REST APIs

- Piloted a real-time e-learning platform featuring collaborative quiz editing and a intuitive UX, securing adoption across **22 institutions** and driving a **30%** increase in student engagement.
- Architected a scalable **Node.js** API enabling real-time data retrieval for **2,000+** users & seamless front-end/back-end integration.

TECHNICAL SKILLS

Languages:	C++, C, Python, Java, Go, JavaScript, HTML5/CSS3, shell
Backend:	Spring Boot, Node.js, Express.js, Flask, REST APIs, WebSockets, Kafka, gRPC
Frontend:	React, Next.js, Tailwind CSS, React Query, GraphQL, webpack, Vue.js
Database:	MySQL, MongoDB, Amazon DynamoDB, PostgreSQL, Elasticsearch, Apache Spark, Redis
Cloud & DevOps:	AWS, Docker, Kubernetes, Git, Postman, Terraform, kafka, Jenkins, linux
Certifications & Training:	UBS Certified Engineer [Certificate], Microsoft Azure AI Fundamentals (AI-900) [Certificate]

TECHNICAL PROJECTS

Real-Time Document Collaboration Platform | Go, gRPC, WebSocket, AWS, Docker, Protocol Buffers, Next.js [GitHub](#)

- Engineered a real-time document platform with **Go, WebSocket, gRPC & DynamoDB** enabling **10K+** document sync.
- Containerized and deployed on **AWS EC2** using **Docker**, improving availability and deployment consistency.

Real-Time Collaborative Code Editor | React, TypeScript, Yjs, WebRTC, Monaco Editor

[GitHub](#)

- Programmed a collaborative code editor using **React, Yjs, WebRTC, & Monaco Editor**, enabling real-time communication.
- Enabled real-time code synchronization, shared output, and persistent peer sessions to support seamless multi-user collaboration.

Code Converter | C, Java, Python, Abstract Syntax Tree, Compiler Design

[GitHub](#)

- Constructed a code conversion to automate C to Java/Python translation, reducing coding errors by **25%** & speeding up delivery.
- Leveraged **ASTs** to generate intermediate code and streamline debugging, processing **1K+** lines per minute.

EDUCATION

Indiana University, Bloomington (MS.in Computer Science; GPA: 3.9/4.0)

Aug 2024 – May 2026

Related Courses: Applied Algorithms, Advanced Database Concepts, Fundamentals of Cloud Computing, Software Engineering.

Maharashtra Institute of Technology, Pune, India (BS. in Computer Science; GPA: 3.8/4.0)

Jul 2018 – Jul 2022

Related Courses: Data Structures, Object Oriented Programming, Software Design, Operating Systems, Data Science.