SALONI GANDHI

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WORK EXPERIENCE

Astral Trading Inc., Maryland, USA   **Jun 2025 – Present**
Software Developer Intern | C++, Python, Go, AWS, Kafka, Git
- Built a multithreaded real-time trading engine in **Go**, **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   **Jul 2022 – 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.

Union Bank of Switzerland (UBS), Pune, India   **Jan 2022 – Jun 2022**
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%**.

Union Bank of Switzerland (UBS), Pune, India   **Jun 2021 – Aug 2021**
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
- Developed 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, Dart (Flutter), HTML5/CSS3, PHP
Frameworks:	React, Node.js, Express.js, Spark, SpringBoot, Flask, Angular, TensorFlow, PyTorch
Database Technologies:	MySQL, MongoDB, Amazon DynamoDB, PostgreSQL, ElasticSearch, Apache Spark
Tools & Platforms:	Git, Postman, AWS, Kafka, Docker, Kubernetes, Terraform, Jenkins, Linux, Azure, WebSockets
Functional Skills:	CI/CD, Agile-Scrum, Microservice Architecture, Web Development, Data Science, Machine Learning
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.