

NIKHIL GHIND

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Pursuing MS Software Engineering @ SJSU · Seeking Summer 2026 SWE Internship · Open to relocation

EDUCATION

San Jose State University, San Jose, California

Expected May 2027

Master of Science in Software Engineering

Relevant Coursework: Machine Learning, Enterprise Software Technologies, Data Mining.

University of Mumbai

July 2016 - August 2020

Bachelor of Engineering in Computer Engineering

(GPA 3.54/4)

PROFESSIONAL EXPERIENCE

Interactive Brokers

July 2020 - June 2025

Sr. Software Engineer

Open Banking Implementation

- Integrated Plaid's SDK into IBKR's AngularJS app (Payment Initiation, Auth, Identity), implementing secure token exchange and resolving embedded-browser quirks for a smooth Open Banking flow.
- Built a Spring Boot-based deposit-processing service for Open Banking across GBP, EUR, PLN, DKK, NOK, and SEK, supporting 500K+ users and enabling HSBC's brokerage partnership with IBKR.
- Integrated the services with the company's observability stack (Elasticsearch + Kibana), standardizing structured logs and adding Python-driven dashboards and alerts to improve time-to-detect and reduce MTTR.

Deposit Matching

- Designed and maintained a Spring-based project composed of small Spring packages, applying Abstract Factory, Factory Method, and Singleton patterns to isolate integrations and configuration; wrote JUnit tests and added a dedicated "regression" Spring profile for consistent regression testing.
- The project was responsible for processing all deposits across 23 currencies (~\$500M+ daily volume); upgraded the codebase from Java 8 to Java 17, improving performance, security, and maintainability and reducing incorrect or incomplete allocations by 30%.

Apache Lucene Caching Service

- Built a refreshing cache with Apache Lucene and Spring Boot that caches about 100,000 deposit requests every 10 minutes, cutting downtime by 90% and increasing throughput. Reworked query structure and cache policy to reduce match latency from 2.8 seconds to 1.4 seconds and trim about 4 hours off service startup.

FHSA Account Integration

- Built a standalone Spring Boot application to automate FHSA fund allocation, eliminating manual processing, saving 60+ hours/week, reducing errors by 90%, and delivering \$75K+ in annual cost savings
- Implemented a scalable FHSA microservice using the Adapter pattern, accelerating integration of new tax-advantaged accounts and ensuring regulatory compliance.
- Engineered customer-facing Angular UIs for creating FHSA transfers, replacing operator ticket workflows and eliminating manual handling—cutting transaction time by 90% and reducing manual effort.

AI Ops PoC (MCP Chat Orchestrator)

- Built a PoC MCP-based chat assistant using the client's Anthropic Claude model, integrating tools that expose internal allocation, cancellation, search, and linking endpoints so operators can complete tasks with simple prompts instead of complex screens.

PROJECTS

Customer Churn Prediction

- Predicted which customers might cancel using tabular usage data; tried Logistic Regression vs. LightGBM and lifted ROC-AUC from 0.74 to 0.87, catching +22% more likely churners in the top 10%.
- Built a simple Streamlit app to upload a CSV and show predictions with plain-English SHAP reasons.

Real-Time Flight Delay Prediction

- Merged U.S. flight records with hourly weather to forecast delays (both "≥15 min?" and "how many minutes"); tracked experiments in MLflow and reached PR-AUC 0.42 and RMSE 11.8 min.
- Served the model behind a Dockerized FastAPI endpoint with input validation, monitoring (Evidently), and scheduled retraining (Prefect); handled 50 req/s with p95 < 60 ms latency locally.

TECHNICAL SKILLS

- Programming languages: C++, Java 17, Python, PHP, C, JavaScript, SQL
- Technologies/ Frameworks: REST API, Spring Boot, Spring MVC, JMS, Apache Kafka, Redis, Elasticsearch, Kibana, GraphQL, JUnit, Mockito, Lucene
- Web Development: HTML, CSS, Angular, React, Node.js, React Native, Laravel, Redux
- Databases: Oracle, MySQL, MongoDB, Cassandra
- Tools/ Platforms: Maven, RHEL 8, Jira, Git, Gerrit, Confluence, Jenkins CI/CD, Docker, microservices.