

Abhiram Banda

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RELEVANT EXPERIENCE

HERE (formerly Openfin)

New York, NY

Software Engineer Intern

June 2025 - March 2026

- Enterprise browser that unifies workflows and data across desktop apps for major banks and enterprises
- Built internal search agents connecting 2 cross-platform data sources (Zendesk, Gong) for 3+ teams including PM, cutting time spent searching for information by ~30%
- Strengthened the entitlement service's access-governance layer by implementing group-membership validation against internal APIs, driving a near-100% reduction in incorrect access grants in testing
- Debugged and fixed a state-persistence bug in the AI model selector that had caused incorrect behavior in ~70% of browser-restart cases, restoring reliable model retention across sessions

Bank of Montreal (BMO)

New York, NY

Software Engineer Intern

June 2024 - August 2024

- Wrote and optimized SQL scripts to extract and transform trading/financial data, cutting manual processing time by ~7 hours/week and improving query efficiency by ~25%
- Automated generation of 4 recurring financial reports on a weekly cadence, replacing manual compilation and ensuring outputs adhered to client specifications and data standards

Data Analyst Intern

June 2023 - August 2023

- Diagnosed a settlement-date miscalculation bug in the trade-processing system and implemented the fix, preventing incorrect trade settlement records
- Executed 50+ successful deals in Endur, demonstrating expertise in utilizing the CTRM system application

EDUCATION

Northeastern University

Boston, MA

MSCS

GPA: 4.00 12/2027

- **Coursework:** Computer Vision, Networking, Algorithms
- **Activities:** NU Launch Labs(Operations Lead), Competitive Programming Club

Rutgers University

New Brunswick, NJ

B.S. Computer Science and Data Science (Double Major)

05/2025

- **Coursework:** Algorithms, Data Structures, Discrete Mathematics, Software Methodology, Systems Programming

PROJECTS

Rider-Driver Matching Marketplace - Python, FastAPI, Kubernetes, MySQL, Monitoring

- Built a distributed ride-matching system with a FastAPI dispatch service and a gRPC pricing service, deployed as containerized microservices on Kubernetes with automated pod recovery across 3 independently scalable services
- Implemented nearest-driver matching using haversine distance, serving 1,800+ trip requests under load testing with Locust at a p95 latency of ~95ms, monitored in real time via Prometheus and Grafana dashboards
- Designed a full trip lifecycle API backed by MySQL with SQLAlchemy ORM validated with 22+ unit tests

Distributed Job Queue - Golang, PostgreSQL, Distributed Systems, Testing

- Built a Distributed Job Queue in Go backed by Postgres, supporting concurrent workers with no duplicates
- Processed 1,000 jobs across 10 workers in ~12 seconds, achieving a 9x speedup through parallel task distribution
- Implemented fault-tolerant at-least-once delivery with lease-based failure detection, automatic retries with a dead-letter queue, and graceful shutdown via context cancellation

Real Time Movie Recommendation Platform - Python, Apache Kafka, Scikit Surprise, FastAPI

- Trained SVD collaborative filtering on ~ 300K Kafka interactions; deployed FastAPI(<50ms p95 latency) with Docker, automated retraining every 10K events, and a hybrid cold start solution
- Built an end-to-end data pipeline (drift detection, 0.92 NDCG@10, 0.99 HR@10, and schema validation); Set up a monitoring dashboard tracking near 100% availability, model accuracy, and data drift; deployed using Railway
- Designed A/B testing, infrastructure, experimented and found cold start causes an 8% NDCG@10

SKILLS

- **Languages:** Python, Java, C++, TypeScript, SQL, R
- **Frameworks & APIs:** React, Node.js, Express, REST APIs, Tensorflow
- **Data & Cloud:** PostgreSQL, MongoDB, Prisma ORM
- **AI/LLM:** OpenCV, AI Agents, MCP