

# Arsh Jafri

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## EDUCATION

### Northeastern University

Boston, MA

Bachelor's Degree in Computer Science and Economics

May 2027

**Coursework:** Algorithms & Data Structures, Object-Oriented Design, Artificial Intelligence, Database Design, Discrete Math

**Honors:** University Honors Program, Honors Scholarship, Dean's List (Fall 2024, Spring 2025)

## TECHNICAL SKILLS

**Languages:** Python, JavaScript, TypeScript, Java, Go, SQL

**Frameworks & Libraries:** Node.js, Flask, FastAPI, React, LangChain, PyTorch, Pandas, NumPy, HTML/CSS

**Databases:** PostgreSQL, MongoDB, MySQL, PgVector

**Developer Tools:** AWS (Lambda, EC2, CloudWatch), GCP, Docker, Linux, CI/CD, Git, PyTest, REST APIs, Redis

**Concepts:** Full Stack, Backend, System Design, Machine Learning, LLM Applications, Distributed Systems

## EXPERIENCE

### Ripple

May 2026

Software Engineer Intern (Incoming)

San Francisco, CA

- Engineering real-time **observability systems** to surface API usage patterns and detect performance regressions.
- Designing and implementing **agentic CI** pipelines and developer tooling to automate **protocol-to-SDK** code generation and validation across Python, Go, Java, and JavaScript for the XRP Ledger.

### PwC (PricewaterhouseCoopers)

Sept 2025 – Jan 2026

AI Engineer Co-op

Boston, MA

- Architected and deployed a **multi-agent** system using **LangGraph** and **MCP** servers to automate security design documentation and architecture diagram generation for enterprise codebases.
- Reduced security documentation delivery time by **71%** across **4** client engagement teams.
- Optimized agent orchestration for **1M+** LOC codebases using **Celery** with RabbitMQ/Redis for parallel processing.
- Deployed agent workflows on **AWS Lambda** with **Docker** and **CI/CD** pipelines for rapid iteration and scalability.

### Disrupt FinTech Consulting

Dec 2024 – Jan 2026

Software Lead

Boston, MA

- Built agentic data pipelines for a **\$400M** business data provider, automating discovery, assessment, and validation.
- Reduced manual data evaluation time by **70%** and surfaced **15+** previously undiscovered, high-signal datasets.
- Engineered distributed **ETL** workflows for **40+** sources with embedding-based similarity search and async processing.
- Deployed scalable **LangGraph** workflows on **GCP** using **Docker** and **Redis** with robust error logging.

### PlateMate

Apr 2025 – Sept 2025

Software Engineer Intern

Boston, MA

- Engineered **RESTful APIs** and backend pipelines in **Go** and **Node.js** to deliver real-time restaurant recommendations.
- Improved recommendation accuracy by **37%** developing an embedding-based content filtering algorithm in **Python**.
- Reduced end-to-end response times by **25%** via parallel async execution and optimized **MongoDB** connection pooling.
- Deployed distributed backend on **AWS Lambda** and **EC2** with caching and CloudWatch, achieving **<150ms** latency.

## PROJECTS

**Rover - AI Price Adjustment Agent** | Python, TypeScript, FastAPI, PostgreSQL, Redis

March 2026

- Architected a production **AI agent** that scans Gmail receipts, monitors live retailer prices, and autonomously negotiates price-adjustment claims, securing over **\$5,000** in savings for **100+ active users** across 83 retailers.
- Engineered distributed **Celery/Redis** pipelines to orchestrate high-frequency email scanning and async price tracking.
- Developed a resilient **scraping engine** to bypass bot detection and maintain consistent price data extraction.

**Clearview - Bias Detection Chrome Extension** | JavaScript, NLP, Sentiment Analysis, Web Scraping

Feb 2025

- Developed and maintained an **open-source** Chrome extension with **500+ installs** to detect political bias in news articles using NLP and real-time sentiment analysis.
- Achieved **87% accuracy** by validating NLP models against expert-labeled datasets of **2,000+ articles**.
- Engineered DOM parsers and async background logic to maintain **<1s load** times on dynamic news sites.

**Econostats - Economic Data Visualization Platform** | Python, AWS, Flask, Pandas, NumPy, Plotly

Jan 2025

- Developed a real-time visualization platform integrating **FRED API** with interactive charts and custom dataset uploads.