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, Discrete Math, Object-Oriented Design, Database Design, Logic & Computation

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

TECHNICAL SKILLS

Languages: Python, Java, Go, JavaScript, TypeScript, SQL, Swift, R
Frameworks & Libraries: React, Flask, Node.js, LangChain, TensorFlow, PyTorch, Pandas, NumPy, Matplotlib
Databases: PostgreSQL, MongoDB, MySQL, PgVector
Developer Tools: AWS (Lambda, EC2, CloudWatch), GCP, Docker, REST APIs, Linux, CI/CD, PyTest, Git
Concepts: Full Stack, Backend, System Design, Machine Learning, LLM Applications, Distributed Systems

EXPERIENCE

PwC (PricewaterhouseCoopers) Sept 2025 – Present

AI Engineering Co-op *Boston, MA*

- Selected for a competitive AI Engineering Co-op to help build platform infrastructure, develop internal software systems, and enable **AI-driven** solutions for Fortune 500 clients across industries.

PlateMate (Startup) Apr 2025 – Sept 2025

Software Engineering 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 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.

Disrupt FinTech Consulting Dec 2024 – Apr 2025

Director of Consulting & Software Lead *Boston, MA*

- Built a data analytics platform for a **$140M** private equity firm, cutting time-to-insight by **65% for executives**.
- Boosted non-technical user adoption by **25%** by integrating **Gemini 1.5 Pro** for natural language SQL querying.
- Developed RESTful APIs and microservices with input validation, **error logging**, and role-based access controls.
- Deployed platform on **GCP** using Dockerized services with Python, React, TypeScript, and PostgreSQL.
- Directed roadmap and delivered **technical demos** to stakeholders, aligning development with client needs.

Forge Product Development Studio Dec 2024 – Apr 2025

Software Development Intern *Boston, MA*

- Developed full-stack mobile wellness app using Flask, React Native, and MongoDB, iterating with **50+** pilot users.
- Reduced API latency by **47%** through query optimization and implemented **CI/CD** workflows with unit testing.

PROJECTS

StarkBot - RAG Chatbot | Python, React, PostgreSQL, PgVector *Sept 2025*

- Built a **RAG chatbot** that answers domain-specific questions about Iron Man with grounded citations.
- Implemented **PgVector** for vector search and optimized retrieval pipelines to deliver low-latency responses.

Tripful - AI Travel Planner | React, Node.js, TypeScript, REST APIs *May 2025*

- Developed an AI-powered full-stack personalized itinerary generator with **real-time** flight, hotel, and activity data.
- Integrated **OpenAI**, Amadeus, and Google Places APIs with re-ranking logic to tailor results to user preferences.
- Cut third-party API latency by **35%** through request batching and caching.

Clearview - Bias Detection Chrome Extension | JavaScript, NLP, Sentiment Analysis, Web scraping *Feb 2025*

- Built a Chrome extension with **200+ installs** to detect political bias in news articles using NLP and sentiment analysis.
- Achieved **87% accuracy** against expert-labeled datasets across 2,000+ articles.
- Engineered DOM parsers and 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.
- Optimized data pipelines for **40%** lower latency, enabling high-throughput access during peak load.