Arsh Jafri

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EDUCATION

Northeastern University, Khoury College of Computer Science **Boston, MA**
Candidate for a Bachelor of Science in Computer Science and Economics *May 2027*
Honors: University Honors Program, Honors Scholarship, Dean's List (Fall 2024, Spring 2025) **GPA:** 3.4/4.0
Relevant Coursework: Algorithms & Data Structures, Object-Oriented Design, Logic & Computation, Discrete Structures, Fundamentals of Computer Science 1/2, Database Design, Applied Econometrics, Statistics for Economists

COMPUTER & TECHNICAL KNOWLEDGE

Languages: Python, Java, Go, JavaScript, TypeScript, SQL, Swift, R
Frameworks: React, React Native, Node.js, Flask, Express
Databases: PostgreSQL, MongoDB, MySQL
Cloud & Infrastructure: AWS (EC2, Lambda, S3, CloudWatch), GCP, Docker, Git, CI/CD
Other Tools: REST APIs, PyTest, NumPy, Pandas, Jupyter

EXPERIENCE

PwC (PricewaterhouseCoopers) **Boston, MA**
Incoming AI Engineering Co-op *September 2025 – January 2026*

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

PlateMate (Startup) **Boston, MA**
Software Engineering Intern *April 2025 – Present*

- Designed and built **RESTful APIs** and backend pipelines in Go to deliver **real-time recommendations** to users; cut response **time by 25%** through async processing, intelligent caching, and connection pooling with MongoDB.
- Improved dish and restaurant **recommendation accuracy by 37%** by developing a custom **TF-IDF and embedding-based** content filtering algorithm in Python that models dish-level user preferences.
- Deployed **production-ready backend** infrastructure using **AWS Lambda and EC2** with async execution, caching, and **CloudWatch monitoring**; achieved **<150ms latency** for recommendations and **>99.9% uptime** under peak load.

Disrupt Fintech Consulting **Boston, MA**
Director of Consulting & Technical Lead *December 2024 – Present*

- Led full-stack development of a **cloud-based data analytics platform** on GCP using React.js, Python, and PostgreSQL, resulting in a **65% faster time-to-insight** for decision-makers.
- Built modular and reusable RESTful APIs to ingest, normalize, and serve structured healthcare datasets across external partners, increasing data reliability and **cutting cross-system integration time by over 40%**.
- Integrated Gemini 1.5 Pro for **natural language querying** of healthcare data, **collaborating with stakeholders** to drive a **25% increase** in adoption by non-technical users.

Forge Product Development Studio **Boston, MA**
Software Development Intern *December 2024 – April 2025*

- Built and iterated on **full-stack features** for a **mobile wellness app** with **Flask** and **React Native**, collaborating closely with product/design teams to refine based on **pilot feedback from 50+ users**.
- Reduced API **latency by 47%** through backend query optimization and Flask route tuning; led backend sprints, contributed to CI/CD workflows, and wrote **unit tests** as part of code reviews within an **Agile team of 7 developers**.

PROJECTS

Tripful | React.js, Node.js, TypeScript, REST APIs *May 2025*

- Built a **full-stack AI travel planner** using **React.js** and **Node.js**; integrated **OpenAI, Amadeus, and Google Places APIs** to generate dynamic itineraries with **real-time data** and deliver re-ranked results based on user preferences.
- Implemented request batching and intelligent caching, reducing third-party **API latency by 35%** and improving itinerary response times end-to-end.

Clearview | JavaScript, NLP, Sentiment Analysis, Web scraping *February 2025*

- Built a Chrome extension with **150+ installs** to detect political bias in news articles using NLP and real-time sentiment scoring with **87% accuracy** vs. expert-labeled data.
- Processed **2,000+ articles**; engineered **custom DOM parsers** and background processing logic for **<1s load time** across all major news sites, ensuring consistent performance on dynamic web pages.

Econostats | Python, AWS, REST API, Flask, Pandas, NumPy, Plotly *January 2025*

- Developed a real-time economic **data visualization platform** using Flask and AWS Elastic Beanstalk; integrating **FRED API** data with interactive charts, real-time visualizations, and **custom dataset uploads** for macroeconomic modeling.
- Optimized pipeline for **12,000+ data points** with **40% lower latency**, enabling high-throughput access during peak load.