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 2023, Fall 2024) — **GPA:** 3.4/4.0
Relevant Coursework: Algorithms & Data, Object-Oriented Design, Databases, Applied Econometrics, Statistics for Economists

COMPUTER & TECHNICAL KNOWLEDGE

Programming Languages: Python, Java, JavaScript, SQL, TypeScript, R, Racket
Machine Learning & Data Science: TensorFlow, PyTorch, Scikit-learn, Pandas, NumPy, Plotly
Software & Frameworks: React, Node.js, Flask, REST APIs
Cloud & Databases: AWS, GCP, PostgreSQL, MongoDB, MySQL
Tools & Visualization: Git, Tableau, Power BI, Jupyter, LaTeX

EXPERIENCE & INVOLVEMENT

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

PlateMate (Startup) — **Boston, MA**
Machine Learning Intern — *April 2025 – Present*

- Improved restaurant recommendation **accuracy by 37%** through developing custom **machine learning algorithms** that analyze individual food item ratings rather than overall restaurant scores.
- Designed and implemented **RESTful APIs** and backend pipelines **connecting LLM** outputs to Node.js/MongoDB infrastructure, optimizing API responses for seamless, low-latency data flow.
- Utilizing **AWS to scale services** and **manage data processing**, ensuring platform stability during high traffic periods.

Disrupt Fintech Consulting — **Boston, MA**
Applications Developer & Senior Consultant — *December 2024 – Present*

- Led the development of a **cloud-based healthcare analytics platform** that resulted in a **65% faster time-to-insight** for decision-makers, utilizing React.js for front-end, Node.js for back-end, and Google Cloud Platform.
- Architected and **implemented RESTful APIs** to integrate multiple data sources, ensuring optimal performance and standardized data formats across systems.
- Fine-tuned and **integrated a large language model** (Gemini 1.5 Pro) into the platform to support natural language querying of health analytics data.
- Collaborated with cross-functional teams to gather requirements, provide technical insights, and ensure alignment with business goals during **weekly stakeholder meetings**.

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

- Worked alongside a team of 7 to develop a **mobile wellness app** using React Native for the front-end and Python/Flask for backend services, with MongoDB for data management.
- **Improved backend response times by 47%** through optimized Python/Flask services and efficient database queries.

PROJECTS

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

- Building an **AI-driven travel planner** that generates personalized itineraries by integrating user preferences for flights, hotels, restaurants, and activities with real-time data.
- Leveraging **large language models and third-party APIs** to optimize itinerary recommendations, enhancing accuracy by analyzing historical patterns and live availability.

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 sentiment analysis**.
- Analyzed **2,000+ articles**, providing real-time bias scoring with **87% accuracy** when compared to expert-labeled datasets.
- Implemented **efficient text parsing algorithms** for sub-second processing while identifying politically charged language.

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

- Developed a real-time economic **data visualization platform** with **FRED API** integration, interactive charts, and custom dataset uploads for trend analysis.
- Processed **12,000+ data points** and reduced data retrieval **latency by 40%** to ensure quick access during high demand.