

ALEXANDER FAROUZ

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Education

George Mason University – Honors College

Expected Graduation: May 2025

Bachelors of Science in Computer Science

GPA: 3.94/4.00

Relevant Coursework: Data Structures and Algorithms, Operating Systems, Machine Learning, Data Mining, Quantum Algorithms

Skills

Languages: Proficient: Java (5 yrs), Python, JavaScript, C/C++ (4 yrs); Intermediate: TypeScript (2 yr); Beginner: Go, Swift (>1yr)

Technologies: Azure, Langchain, Pinecone, React, Next.js, Node.js, FastAPI, Flask, SQL, MongoDB, Firebase, OpenAI, Groq

Experience

Software Engineer, Peraton

Herndon, VA - Incoming, June 2025

Software Engineering Intern

Remote

Horizon Labs

August 2024 – January 2025

- Worked in SCRUM team producing 10+ APIs and created landing/dashboard pages from scratch increasing users by 100%
- Implemented backend API integrations using FastAPI, streamlining communication between frontend and Azure services
- Developed server-side logic and database management with Azure SQL and Blob Storage, optimizing storage and retrieval
- Collaborated with cross-functional Scrum teams to integrate LLM processing using Langchain, leveraging FastAPI libraries

Software Engineering Fellow

Remote

Headstarter AI

July 2024 – September 2024

- Built 5+ AI apps and API's using NextJS, OpenAI, Pinecone, StripeAPI with 98% accuracy as seen by 1000 users
- Developed projects from design to deployment leading SCRUM team of 3 engineering fellows using MVC design pattern
- Coached by Amazon, Bloomberg and Capital One engineers on Agile, CI/CD, Git and microservice patterns

Software Engineering Intern

Los Angeles, CA

CloudStation

May 2024 – November 2024

- Developed a website frontend and backend from scratch using React and JavaScript to increase engagement by 100%
- Achieved 70% increase in interest across ventures such as clients, business owners and investors as seen by 5000+ viewers
- Increased revenue by 45% resulting in \$10,000+ and facilitated positive reviews and interest from multi-millionaire investors

Computer Science Teaching Assistant

Fairfax, VA

George Mason University

January 2023 – Active

- Worked/working as teaching assistant for **Analysis of Algorithms**, Data Structures and Algorithms, Object-Oriented Programming and Introduction to Computer Programming holding office hours answering 100+ questions for all courses
- Created homework solutions, assisted students with lab assignments during lab periods, proctored tests for all courses
- Answered student questions on projects on online forum (Piazza), aiding 3000+ George Mason CS students

Projects

Viewee

November 2024

- Created conversational voice AI interviewer for technical SWE interviews with 75+ coding problems and real time feedback
- Utilized WebSockets and chunking to achieve <1000 ms response time with RAG pipeline on solutions for accurate response
- TypeScript and Next.js frontend, Python backend with STT and TTS APIs from Deepgram with GPT-4o for feedback

RecMyProfessors

August 2024

- Developed a RateMyProfessors chatbot allowing users to get professor details based on filters, classes, ratings, etc.
- Built a web scraping server using Python, Selenium and BeautifulSoup to gather professor data from 100+ universities
- Frontend built with Next.js + React, backend built with Javascript + OpenAI API with storage using Firebase and Clerk auth

Pam Playground

August 2024

- Created an AI customer support agent for car dealerships to take customer calls, schedule appointments, inquire inventory
- Utilized WebSockets and streaming techniques to achieve sub 1000 ms response times included with live transcriptions
- TypeScript and Next.js frontend, JavaScript and Node.js backend with STT and TTS APIs from Deepgram with Llama3 API

Awards/Certifications

Hackathons: Headstarter Hiring Hackathon Finalist, 2024; **Dean's List:** Fall 22, Summer 23, Fall 23, Spring 24, Summer 24, Fall 24