

# ALEXANDER FAROUZ

703-939-4983 ♦ alexfarouz@gmail.com ♦ alexfarouz.com ♦ github.com/alexfarouz ♦ linkedin.com/in/alexfarouz

## Education

### George Mason University – Honors College

Expected Graduation: May 2025

Bachelors of Science in Computer Science

GPA: 3.95/4.00

**Relevant Coursework:** Data Structures and Algorithms, Object Oriented Programming, Low-level Programming, Software Engineering, Analysis of Algorithms, Computer Systems and Programming, Quantum Algorithms, Introduction to AI

## Skills

**Languages:** Proficient: Java (4 yrs), Python, JavaScript, C/C++ (3 yrs); Intermediate: TypeScript (1 yr); Beginner: Go, Swift (>1yr)

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

## Experience

### Software Engineering Intern

Remote

Horizon Labs

August 2024 – Active

- 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 to enhance natural language understanding capabilities

### 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 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 **Data Structures and Algorithms (Java)**, Object-Oriented Programming Java and Introduction to Computer Programming (Python) holding office hours answering 100+ questions for all courses
- Answered student questions on projects on online forum (Piazza), aiding 3000+ George Mason CS students
- Assisted students with lab assignments during lab periods and proctored tests for all courses

## Projects

### 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

### 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

## Awards/Certifications

**Hackathons:** Headstarter Hiring Hackathon Finalist, 2024;

**Honors College Dean's List:** Fall 2022, Spring 2023, Summer 2023, Fall 2023, Spring 2024, Summer 2024

**Johns Hopkins University:** HTML, CSS, and Javascript for Web Developers