ALEXANDER FAROUZ

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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 (3 yrs), JavaScript (2 yrs); Intermediate: TypeScript (1 yr); Beginner: Swift, Go (>1yr)
Technologies: Azure, Langchain, Pinecone, React, Next.js, Node.js, FastAPI, Flask, MongoDB, Firebase, OpenAI, Groq

Experience

Horizon Labs   **Remote**

Software Engineer Intern   **August 2024 – Active**

- Worked in SCRUM team producing 10+ APIs and creating 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

Headstarter AI   **Remote**

Software Engineer Fellow   **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

CloudStation   **Los Angeles, CA**

Software Engineer Intern   **May 2024 – Active**

- 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

George Mason University   **Fairfax, VA**

Computer Science Teaching Assistant   **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