# ALEXANDER FAROUZ

703-939-4983 ♦ alexfarouz@gmail.com ♦ alexfarouz.com ♦ github.com/alexfarouz ♦ https://linkedin.com/in/alexander-farouz-1433g

## Education

**George Mason University – Honors College**                    **Expected Graduation: May 2025**
Bachelor of Science in Computer Science                         **GPA: 3.94/4.00**
**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:** Python, Java, TypeScript, JavaScript, HTML, CSS, C, C++, R
**Technologies:** Azure, Langchain, React, Next.js, Node.js, FastAPI, Flask, OpenAI API, Groq, Pinecone

## Experience

**Horizon Labs**                                               **Remote**
Software Engineering Intern                                    **August 2024 – Active**
- 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 Engineering Fellow                                    **July 2024 – September 2024**
- Building 5+ AI apps and API's using NextJS, OpenAI, Pinecone, StripeAPI with 98% accuracy as seen by 1000 users
- Developing projects from design to deployment leading 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**
Webmaster                                                     **May 2024 – Active**
- Engineered fully functional website for CloudStation using React.js, HTML, CSS, and JavaScript
- Features comprehensive forms to allow for business inquiries and other interests between client and vendors
- Over 1000 visits by venue owners/managers, business owners and potential clients. https://www.cloudstationusa.com/

**George Mason University**                                    **Fairfax, VA**
Computer Science Teaching Assistant                            **January 2023 – Active**
- Worked/working as teaching assistant for *CS310 (Data Structures and Algorithms, Java)*, CS211 (Object-Oriented Programming, Java) and CS112 (Introduction to Computer Programming, Python)
- 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

**Notefy**                                                    **August 2024**
- Created an AI powered flashcard generator which allows users to input text, pdfs and YouTube videos as context
- Built using Next.js, React and TailwindCSS for frontend, Python and flash for backend, Firebase, OpenAI API, Clerk
- Holds 60+ users including 10+ premium members and an average rating of 4.5 stars across given reviews.

## 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