

ALEXANDER FAROUZ

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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 (Java), Object Oriented Programming (Java), Low-level Programming (C), Quantum Algorithms, Formal Methods and Models, Linear Algebra, Numerical Analysis.

Skills

Languages: Python, Java, JavaScript, HTML, CSS, C, C++, R (introductory)

Technologies: Linux, Git, React, Next.js, Firebase, Node.js, Flask, OpenAI API, JUnit, Secure Shell

Experience

Headstarter AI

Remote

Software Engineering Fellow

July 2024 - Active

- 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 and miscellaneous questions on online forum (Piazza), assisted students with lab assignments during lab periods, proctored tests for all courses
- Aided over 3000 George Mason computer science students in total time as teaching assistant

Rise Up Kenya

Salgaa, Kenya

Website Administrator

December 2023 – Active

- Constructed website (hosted via shopify) for donations for the community in Salgaa, Kenya.
- Currently working on fully transferring donations and server profiles off of shopify onto independent platform
- Raised \$7000+ (Increasing monthly) for those in need, located in Salgaa, Kenya; See more - riseupkenya.org

Projects

Pantry Tracker

July 2024

- Built a Next.js web app holding 100+ users to track a users pantry inventory based on user requests sent to firebase database
- Leverages OpenAI's GPT 4o mini model to classify images of pantry items and generate recipes based on a user's inventory
- Frontend built with Next.js + React, Backend features Firebase, JS, OpenAI API, Unsplash API and the Clerk API

Sorting Algorithm Visualizer

March 2024

- Created a React UI/UX to visualize sorting algorithms such as: merge sort, quick sort, heap sort, and bubble sort
- Implemented primarily using React and JavaScript as well as HTML and CSS, hosted via GitHub Pages
- Holds 200+ users composed of fellow George Mason University students from Data Structures and Algorithms course

Awards/Certifications

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