

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, JUnit, React, SpringBoot, Node.js, Secure Shell, Remote Machinery

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

Sorting Algorithm Visualizer

March 2024

- Created a React UI 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

Machine Learning Heart Disease Detector

October 2023

- Created an interactive web-app to detect heart disease based on 13 different parameters such as age, gender, cholesterol, etc.
- Implemented K Nearest Neighbors (KNN) machine learning algorithm by referencing 5000+ cases of heart disease by a csv file from kaggle.
- Includes a user interface in HTML and CSS while implementing Flask app by parsing JSON strings through JavaScript into Python backend.

Awards/Certifications

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

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