ALEXANDER FAROUZ

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Education

George Mason University - Honors College

Bachelor of Science in Computer Science

Expected Graduation: May 2025 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, Spring Boot, Flask, Node.js, Secure Shell, Remote Machinery

Experience

CloudStation Washington, DC May 2023 – Active Webmaster

Engineered fully functional website for CloudStation using React is, 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; See more cloudstationusa.com

Rise Up Kenya Salgaa, Kenva

Website Administrator

December 2023 – Active

- Constructed website (hosted via shopify) for donations and server management.
- 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

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

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

- Implemented K Nearest Neighbors (KNN) machine learning web app to detect chance of heart disease by training model with csv files (via kaggle) containing heart disease data
- Takes in 14 parameters including age, gender, cholesterol, blood pressure, etc.
- Includes a user interface in HTML and CSS while implementing Flask app by parsing JSON strings through JavaScript into backend done in Python

Kruskal's Algorithm Simulator

October 2023

- A visual representation of Kruskal's Algorithm fully implemented in Java (with a downloadable executable)
- Includes a GUI with editable graph nodes and graph edges to customize simulation for added capability
- Utilized several self-implemented data structures to implement, including: graphs, binary search tree, set, map

Awards/Certifications

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

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