Hamza Shemsu

(617) 233 1363 | hshemsu24@amherst.edu | Cambridge, MA | LinkedIn | GitHub | Personal Website

EDUCATION

Amherst College | Amherst, MA **-** *Cumulative GPA: 3.75*   **Expected Graduation: May 2024**

Bachelor of Arts / Major: Computer Science

- Relevant Coursework**: Data Structures, Algorithms, Machine Learning, Algorithms and Visualizations, Computer Systems, Networks*, Databases***

EXPERIENCE

CodePath Web Development Course | Remote   **September 2023 – November 2023**

Intermediate Track

- Completed a 10-week intermediate web development program, mastering **React**, state management, and **API** integration.
- Developed and submitted 7 graded weekly projects, showcasing skills in web design and real-world data handling.
- Proficient in creating interactive frontend applications, connecting to databases, and deploying live websites.

Meta Above & Beyond Computer Science (ABCS) Fellow | Remote   **August 2022 – October 2022**

Meta ABCS Fellow

- Completed an intensive mentorship program led by industry-leading software engineers, honing essential **data structure** and **algorithm** skills
- Utilized 15+ algorithms to solve Meta's leading coding challenges with a focus on optimizing time and space complexity

IBM Accelerate Program Participant | Remote   **June 2022 – August 2022**

Software Development Track

- Built responsive and user-friendly frontend web applications leveraging **HTML, CSS**, **React,** and M**aterial-UI**
- Implemented rest services for a backend project utilizing the **Express** framework

PROJECTS

Holloway Classics Library Database Project | PostgreSQL, React.js, Express, CORS, Node.js   **September 2023 - Present**

Developer

- Collaborated with a team of developers to lead the design and implementation of a PostgreSQL database for the Holloway Classics Library, managing over 2000 books.
- Developed a new web application using React.js, Express, CORS, and Node.js to replace a non-functional system.

Personal Website | HTML, CSS, JavaScript   **May 2023 - Present**

Developer

- Created and built a personal website utilizing **HTML**, **CSS**, and **JavaScript** to showcase my portfolio of projects and demonstrate my skills in web development
- Implemented interactive elements and animations using JavaScript and CSS transitions to enhance user engagement and create a visually appealing browsing experience

Agglomerative Hierarchical Clustering Visualizer | HTML, CSS, JavaScript   **April 2023 – May 2023**

Developer

- Designed and developed a web-based hierarchical agglomerative clustering visualizer using **HTML, CSS**, and **JavaScript**, enabling users to gain a clear understanding of the algorithm's process and results
- Optimized the performance of the visualizer by leveraging efficient **algorithms** and **data structures**, enabling the visualization of large-scale datasets while maintaining a smooth and responsive user experience

LEADERSHIP & PROFESSIONAL DEVELOPMENT

Hack.Diversity | Boston, MA   **January 2024 – Present**

Hack.Diversity Fellow

- Selected into 2024 Hack.Diversity Fellowship, a career leadership and workforce development program integrating Boston's innovation, corporate, civic, academic, and philanthropic pillars

SKILLS & INTERESTS

Technical: Java (Proficient), React (Proficient), JavaScript (Proficient), HTML/CSS (Proficient), Python (Familiar), PostgreSQL (Familiar), Node.js, Google Suite, Microsoft Office (Word, PowerPoint, Excel), Jupyter Notebook

Languages: Amharic (Fluent), Spanish (Intermediate), Arabic (Elementary)