

Hamza Shemsu

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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

SKILLS & INTERESTS

Technical: Java, React, JavaScript, HTML/CSS, Python, PostgreSQL, Node.js, Google Suite, Jupyter Notebook, Git/GitHub

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

EXPERIENCE

CodePath Web Development Course | Remote

September 2023 – November 2023

Intermediate Track

- Completed a **10-week** web development program and gained expertise in **React**, state management, and **API** integration.
- Developed and submitted **7** graded weekly projects, exhibiting proficiency in web design and real-world data handling.

Meta Above & Beyond Computer Science (ABCS) Fellow | Remote

August 2022 – October 2022

Meta ABCS Fellow

- Participated in a rigorous mentorship program led by industry-leading software engineers, honing essential **data structure** and **algorithm** skills
- Employed over **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 intuitive frontend web interfaces leveraging **HTML**, **CSS**, **React**, and **Material-UI**
- Executed RESTful 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 closely with a team of three peers to lead the design and implementation of a **PostgreSQL** database for the Amherst College Holloway Classics Library, managing over **2000** books.
- Engineered a modern web application using **React.js**, **Express**, **CORS**, and **Node.js**, replacing an obsolete system and significantly improving operational efficiency and user interface quality.

Personal Website | HTML, CSS, JavaScript

May 2023 - Present

Developer

- Designed and developed a personal website utilizing **HTML**, **CSS**, and **JavaScript** to showcase my portfolio of projects and demonstrate my skills in web development
- Integrated dynamic 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

- Teamed up with a colleague to create 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