

# Hamza Shemsu

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## EDUCATION

**Amherst College** | Amherst, MA - *Cumulative GPA: 3.73*

**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 **Material-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)