

Dawit Boku

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EDUCATION

Colby College, Waterville, ME

Expected Graduation: May 2026

Major: Bachelor of Arts in Computer Science with a concentration in AI

GPA: 3.74

Minor in Science, Technology, and Society

Organizations: ColorStack, CodePath, DavisAI Institute, DavisAI Advisory Board, Colby Hackers

SKILLS

Programming Languages: Python Java Javascript HTML CSS

Frameworks and Tools: React Node.js VS Code Visual Studio GitHub Pages GitHub Actions Flask

Languages: English Amharic

Relevant Coursework: Data Structures, Algorithms, Linear Algebra, Object Oriented Programming, Intermediate Web Development (with CodePath), Hands-on Intro to AI with NLP, Computer Organization

WORK EXPERIENCE

Software Developer, Davis Institute for AI, Colby College, Waterville, ME

September 2023 – Present

- Spearheading the end-to-end development and launch of a **static website** that recommends different AI models to users, leveraging the MiniConf GitHub repository as its foundational architecture
- Customizing **front-end elements using JavaScript** and optimizing **back-end performance with Flask** to create a seamless user experience
- Partnering with UX/UI designers to implement the **user interface**, prioritizing **accessibility features** and **functional enhancements**
- **Managing the GitHub project repository**, ensuring version control, tracking and resolving issues, and collaboratively developing features with a team of developers
- Orchestrating the **integration** and **ongoing maintenance of** various AI models using **GitHub Actions** and **hosting** the models on **Google Colab**, enhancing the website's functionality and user experience

Main Instructor, Co-founder, BuildWithPy, Addis Ababa, ET

March 2021 – September 2021

- Taught engaging weekly online **Python lessons** for Saint Joseph High School students
- Designed and streamlined curriculum materials in partnership with a fellow educator and a school instructor
- Improved **course quality** and **user experience** by actively integrating feedback from both students and faculty
- Achieved an **8x growth**, expanding the community from **5 initial users** to over **40+ active members**, by fostering an inclusive and supportive learning ecosystem

Participant, IDEAS Summer Program, The Ethics Institute, Boston, MA

July 2023 – August 2023

- Engaged in the IDEAS summer program, collaborating with world experts in AI ethics and policy as well as data science, and honing critical thinking skills for responsible and inclusive development of AI
- Authoring a **research paper** emphasizing the significance of high-performance multilingual LLMs

PROJECTS

Pathfinding Visualizer | Javascript, React, Java

[GitHub](#) | June 2023 – July 2023

- Engineered an interactive **web application in 4 weeks** enabling users to dynamically visualize key pathfinding algorithms, including Dijkstra's, and A* Search, navigating mazes
- Deepened expertise in **data structures** and **algorithms** by solving complex pathfinding problems
- Acquired foundational proficiency in **React** and **JavaScript** syntax in a short timeframe demonstrating adaptability and self-driven learning to meet project specifications

Gradescope Chrome Extension | HackMIT | Python, Javascript, Django, Cloud Vision API

[GitHub](#) | September 2023

- Collaborated in a **3-member team** to engineer a Chrome extension, enhancing Gradescope's user experience by introducing **automated page selection**
- Spearheaded the development of a proprietary algorithm to map questions to corresponding answer pages accurately, leveraging **Selenium for dynamic web scraping** due to Gradescope's lack of a public API
- An estimated **50%** acceleration in submission speed for Gradescope users through our extension's integration