

# Dawit Boku

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## EDUCATION

Colby College, Waterville, ME

Graduation Date: May 2026

Bachelor of Arts in Computer Science, Concentration in AI

GPA: 3.74

Minor in Science, Technology, and Society

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

## SKILLS

Proficient in: Python Javascript HTML CSS React GitHub Pages GitHub Actions

Familiar with: Java Node.js Pytorch Visual Studio 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

- Spearhead 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
- Customize **front-end elements using JavaScript** and optimize **back-end performance with Flask** to create a seamless user experience
- Partnered with UX/UI designers to implement the **user interface**, prioritizing **interactive** and **accessible** design
- **Manage the GitHub project repository**, ensuring version control, tracking and resolving issues, and collaboratively developing features with a team of developers
- Orchestrate the **integration** and **maintenance** of various AI models using **GitHub Actions** and **hosting** the models on **Google Colab**, enhancing the website's functionality and user experience through innovation.

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, and implemented **innovative teaching and learning methods**
- 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, commitment, 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** by implementing innovative solutions
- 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