Dawit (Dave) Boku

SOFTWARE & PRODUCT ENGINEERING

CONTACT

- 469-515-6223
- dsboku26@colby.edu
- git/dave-sbs/
- in/dawit(dave)boku/

SKILLS

Programming Languages

Python

Javascript/Typescript

Tailwind

Java

Frameworks

Node.js

React/Next.js

React Native/Expo

Flask/Django

PostgreSQL/MySQL

Selenium/Beautiful Soup

AWS

Design

Figma

EDUCATION

Colby College, Waterville, ME

Graduation Date: May 2026

GPA: 3.77 (Cumulative)

Major: Computer Science with AI

Minor: Mathematics

Orgs: ColorStack, Codepath

Relevant Coursework: OOP, Data Structures, Algorithms, Data Analysis, Discrete Math

BIO

Growing up in Ethiopia, I was one of few teenagers who had early exposure to technology. Supported by mentors, I taught myself Python through online courses but quickly realized many of my peers didn't have the same opportunities. To bridge this gap I founded BuildWithPy, a student org dedicated to teaching online Python courses. Over 7 months, we grew from 5 students to 40+ active members, helping dozens of kids go from zero programming knowledge to building multiple projects.

That initial spark for building never left. In the past two years, I've refined my programming and design skills through personal and school projects, as well as hackathons. I continue to build projects that improve accessibility, such as the Colby LLM Portal, which provides free access to cutting-edge LLMs for faculty and students. Looking to the future, I'm eager to join teams were I can continue to grow as a builder and contribute to projects that matter.

To learn more about my work so far, check out my personal portfolio

WORK EXPERIENCE

Coast-Cow-Consumer Project @ Colby College   June 2024 - August 2024

Summer Intern - Full Time

- Engineered a scalable custom data repository using **MySQL** and **PHP**, to accommodate **100+ data entries**, with versioning and change management systems
- Implemented custom search feature, boosting **data exploration** efficiency by **50%** and made the data accessible for all researchers
- Revamped the webpage UI/UX, conducted usability testing and the feedback indicated a **20%** increase in **user satisfaction** and **60%** reduction in **user errors**
- Performed robust **unit tests** and wrote **detailed documentation** for the whole codebase.

Davis Institute for AI @ Colby College   September 2024 - May 2024

Software Developer - Work/Study

- **Designed** and **developed** a chatbot playground interface with **React**, **Flask**, and **PostgreSQL**, used by 10+ faculty to access 5+ LLMs with **multimodal support**
- Built an **API-key based access system** to centralize the account management process, reducing account management burden by more than **80%** for Davis AI

PROJECTS

Gradescope PageMatch (HackMIT)   GitHub | September 2023

- Collaborated in a 3-member team to address the slow assignment submission process on Gradescope by engineering a Chrome extension. By introducing automated page selection, we **improved submission speeds** by **up to 50%**, significantly enhancing the students' experience.
- Engineered a precise mapping algorithm using **Selenium** for web scraping and **Google Vision API**, achieving **65%** accuracy in matching questions to answer pages, while optimizing performance for real-time processing.