Dawit (Dave) Boku

SOFTWARE & PRODUCT ENGINEERING

CONTACT

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SKILLS

Programming Languages

Javascript/Typescript

Python

Java

Frontend Frameworks

React/Next.js

React Native/Expo

Backend Frameworks

Node.js

Flask

Databases

PostgreSQL/MySQL

Other Tools

Langchain

Selenium/Beautiful Soup

EDUCATION

Colby College, Waterville, ME

Expected Graduation: May 2026

GPA: 3.77

Major: Computer Science with AI

Minor: Mathematics

Orgs: ColorStack, Codepath

Relevant Coursework: OOP, Data Structures, Algorithms, Data Visualization, Linear Algebra

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

Software Engineering Intern - Full Time

- Engineered a scalable custom data repository using **MySQL** and **PHP**, to accommodate **1000+ data entries**, with versioning and relational database management systems
- Implemented custom search feature, boosting **data exploration** efficiency by **50%** and made the data accessible for all researchers
- Revamped the front end UI/UX, conducted usability testing and the feedback indicated a **20%** increase in **user satisfaction** and **60%** reduction in **user errors**
- Created clear, friendly documentation that covered **80% of the codebase**, which **reduced onboarding** time by more than **30%**.

Davis Institute for AI @ Colby College   September 2023 - 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

PROJECTS

7/11 Administrative System   GitHub │ August 2024 - December 2024

7/11 Southern Texas Franchise Owner's Association

- Transformed manual workflows into a seamless full-stack mobile platform, saving 90+ minutes per meeting
- Enabled **300+ monthly active users** to vote on new vendors, manage board meetings, track member attendance, and record payment transactions-all in one app
- Built with **Expo for React Native** and **TypeScript**, connected to a **PostgreSQL** database on Supabase, leveraging **REST API** for secure, real-time interactions, and improved UX
- Implemented **automated session management** with admin-driven and script-triggered processes, ensuring reliable event handling and data integrity
- Designed **modular database schema** with master/sub tables and automated Google Drive backups, safeguarding historical records and ensuring compliance