Nathnael Tesfaw

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Education

Cornell University, College of Engineering   **May 2027**
Degree: Bachelor of Science, **Major:** Computer Science, **Minor**: A.I, **GPA**: 3.5
Related Courses: Object-Oriented Programming & Data Structures, Intro to Backend Development, Discrete Math, Digital Logic & Computer Organization, Intro to Analysis of Algorithms, Embedded Systems, Intro to Cybersecurity.

Skills

Coding Languages/Developer Tools: Python, Java, HTML/CSS, Next, Dart, Flask-SQL, Node, Express, RISC-V, C, Verilog, PostgreSQL, Git, Firebase, Docker, Google Cloud Services, Heroku, Vercel, MongoDB, Supabase, Azure Labs

Experience

Hack4Impact Cornell   Ithaca, NY
Software Developer on Greenzone   January 2025 – Present
- Built a **web-app** to deliver data that secures the livelihoods of **300,000+ herders** and their livestock in Mongolia.
- Engineered **data retrieval and modification** functionalities for map data using **Supabase** and **PostgreSQL**.
- Established robust **API-Routing** from backend to the **Next.js** frontend using **Node.js** and **Express.js**.

Software Developer on OKB-Hope   September 2024 – December 2024
- Developed a **web platform** that connects **10000+ of Ghanaians** to vital mental health resources.
- Implemented user-friendly **interfaces** for the Discover and Psychiatrists pages using **Node.js** and **HTML/ CSS**.
- Constructed and tested multi-file **upload and storage features** by integrating **Firebase** with the **Next.js** frontend.

Workout Hub Website   Remote
Lead Developer   July 2024 – Present
- Designed and developed a **full-stack website** to allow for **any number of users** to store and track their exercises.
- Built the frontend with **React**, the backend with **Node.js/Express**, and used **MongoDB** for data storage.
- Implemented **secure user authentication** using **JWT tokens**, tying accounts to user's email and password.
- **Deployed** the backend via **Heroku** and the frontend via **Vercel** for scalable hosting, accessibility and ease of use

Lost and Found App   Ithaca, NY
Backend Developer   April 2024 – May 2024
- Developed a Lost and Found **IOS Application** in **a team of 4** other students for an app creation competition.
- Designed and implemented the backend using **Flask-SQL** to handle **API-routing** for frontend requests.
- **Deployed** the backend via **Docker** on **Google Cloud Platform** for live accessing, testing and hosting.

Shady Grove Group LLC   Silver Spring, MD
Part-Time Intern   June 2021 – June 2023
- Contributed to an LMS that is used by **100+ at the company** and in Florida University Southeast (FUSE).
- Utilized **Flutter** for frontend and **Firebase** for the deployment, while using an **Agile** development framework.
- Optimized platform **functionality** through **testing** and key document uploads, enhancing usability and reliability.

Extracurriculars

CRU Cornell   Ithaca, NY
Technology Team   August 2023 – Present
- Led the creation **of audio-visual content** for weekly club gatherings attended by **100+ active members**.
- Aided in the **organization and structure** of the weekly club gatherings through weekly leadership meetings.

Silver Spring Village, Inc.   Silver Spring, MD
Volunteer Technology Coach   March 2022 – June 2023
- Provided personalized **technology support** and usage **training** to senior citizens living in my community.
- **Assisted** seniors with the **use of technological devices**, social media applications, and general internet navigation.

Hamlin Fistula Hospital   Addis Ababa, Ethiopia
Assistant Receptionist and Rehabilitation Aid   July 2022 – Aug 2022
- Worked with **managing patient and employee data**, ensuring reliable registration for the **100+** of registrar users.
- Aided the rehabilitation team in **providing skills** and vocational training to women recovering from surgery.