

Yohannes Admassie

612-479-2969

Yohannes.30belachew@gmail.com

yohannesadmassie.vercel.app

github.com/YohannesAd

linkedin.com/in/yohannes-badmassie

EDUCATION

Minnesota State University, Mankato

Bachelor of Computer Information Technology | Minor in Mathematics

Mankato, MN

Aug 2022- May 2026

Relevant Coursework: Data Structures and Algorithms, Software Engineering, Operating Systems, Programming Language, Computer Architecture, Database, Machine Learning, Discrete Mathematics, Linear Algebra

Certification: 2024 Full Web Development Boot Camp -Udemy

WORK EXPERIENCE

Minnesota State University, Mankato

Software Engineering Co-op

Mankato, MN

Jan 2025 – May 2025

- Contributed on development of a full-stack portfolio management system to replace disorganized submission methods used by CS and Engineering students at Minnesota State University.
- Collaborated on system architecture and SDLC planning, including stakeholder interviews, buy vs build evaluation, and technical documentation.
- Led frontend architecture and collaborated on API design using **tRPC** and **Drizzle ORM** with **SQLite**, ensuring strong typing and consistent data flow across the stack.
- Developed and deployed 8+ core UI components using **Next.js**, **TypeScript**, and **TailwindCSS**, reducing user load times by 25% and improving navigation clarity through role-based dashboards.

University Of Wisconsin, Madison

Software Developer Co-op

Mankato, MN

Aug 2024 – Dec 2024

- Contributed to the development of The Hidden Village Online (THV-O), a motion capture powered educational game designed by UWM researchers to improve students mathematical reasoning through embodied learning.
- Led the front-end components for development for Version 6 of the game, implementing key components including the main menu, settings interface, and interactive game modules using **React PIXI** and **JavaScript**.
- Assisted with back-end tasks, including a custom **CSV conversion script** for **JSON** data processing using **Node.js** and **json2csv.js**, reducing processing errors by 30%.

Notice Enterprises, Inc.

Software Engineering -Summer Intern

Alexandria, VA

May 2024 – Aug 2024

- Tackled inefficiencies in a high traffic appointment scheduling system by analyzing patterns of scheduling conflicts and missed notifications.
- Developed scalable frontend and backend enhancements using **JavaScript** and **Python**, and integrated **Twilio API** for SMS alerts and **Google Calendar API** for seamless calendar syncing.
- Achieved a 25% reduction in scheduling errors, and 30% improvement in system efficiency within two months.

PERSONAL PROJECTS

Hiwot Fit App *Next.js, React.js, Mongo Db, JWT*

Founder & Developer

Apr 2025- Present

- Built a web app to solve the lack of personalized tracking in existing fitness apps.
- Implemented features like workout history tracker, workout video, calorie calculator, and journaling with notes, images, and file uploads options, boosting user engagement by 60%.
- Currently building Version 2 with plans for full cross-platform release and startup launch.

GlucoVision Diabetes Management App *Python, React Native, TypeScript, Fast API, PostgreSQL*

Founder & Developer

May 2025 - Present

- Mobile-first diabetes app to help patients track blood sugar, view trends, and generate medical-grade PDF reports.
- Integrated **OpenAI** API for chatbot support and **scikit-learn** models for blood glucose prediction & risk analysis.
- Developed a secure, HIPAA-aligned backend using FastAPI, PostgreSQL, and JWT, with full API documentation.

SKILLS

- Language & Frameworks:** Python, JavaScript, TypeScript, React, Node.js, React Native, FastAPI, Next.js, Java
- Technologies & Tools:** Git, MongoDB, PostgreSQL, SQL, Azure, Firebase, JWT, Pandas, NumPy, Scikit-learn.

ACTIVITIES AND LEADERSHIPS

- National Society of Black Engineering:** *Board Member* Aug 2024 – Present
- Ethiopian Eritrean Student Association:** *President* Jan 2024 – Aug 2024