

# Yohannes Admassie

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## EDUCATION

### Minnesota State University, Mankato

Mankato, MN

Bachelor of Computer Science | Minor in Mathematics

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

Mankato, MN

Software Engineering Co-op

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

Mankato, MN

Software Developer Co-op

Aug 2024 – Dec 2024

- Led the development of The Hidden Village Online (THV-O) V6 version, a motion capture powered educational game designed by UWM researchers to improve students mathematical reasoning through embodied learning.
- Implemented key components for front end part including the main menu, settings interface, and interactive game modules using **React PIXI** and **JavaScript**, resulting in 30 % user engagement.
- 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 40%.

### Notice Enterprises, Inc.

Alexandria, VA

Software Developer -Summer Intern

May 2024 – Aug 2024

- Analyzed usage patterns and bottlenecks in Wait Smart, a high-traffic appointment scheduling system, to identify root causes of missed notifications and scheduling conflicts.
- 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 full stack 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, Java, TypeScript, React, Node.js, React Native, FastAPI, Next.js
- Technologies & Tools:** Git, MongoDB, PostgreSQL, SQL, Azure, Firebase, JWT, Pandas, NumPy, Scikit-learn

## ACTIVITIES AND LEADERSHIPS

### Ethiopian Eritrean Student Association: President

Jan 2024 – Aug 2024

- Led Ethiopian Eritrean Student Association as President, increasing membership by 30% and organizing 4 cultural events attended by over 100 students.