

Yonathan Wagaye

EDUCATION

Abu Dhabi, UAE

New York University Abu Dhabi

Aug 2021 - May 2025

- **Major:** Computer Science, BSc
- **Minor:** Applied Mathematics
- **Course Work:** *Data Structures, Algorithms, Software Engineering, Web Technologies, Applied Machine Learning, Computer Networks*, Computer Vision, Introduction to Game Development in Unity, Operating Systems

EMPLOYMENT

Web Developer, Data Analyst

[EasyEyes Research Team](#)

Oct 2024 - Present

Project: Conducting vision experiments using real-time web applications

- Developing interactive web applications for vision experiments using **TypeScript**, **Express**, **Node.js**, and **React** to support research objectives and enhance user interaction.
- Conducting in-depth data analysis with **R** to extract actionable insights and generate plots

Full Stack Engineer, Intern

Al Fahad Trading Enterprises L.L.C.

Aug 2024 - Dec 2024

UniMentor (startup): A web app that connects tutors with students in the UAE

- Developed responsive user interfaces and reusable **React** components, implementing **Redux** for scalable state management and seamless tutor-student workflows across the platform.
- Collaborated on **API integration** and application architecture, enabling seamless communication between frontend and backend services.
- Contributed to backend development with **Node.js**, **Express.js**, and **PostgreSQL**, providing a strong understanding of full-stack product development.

Web Developer, Research Assistant

[Applied Interactive Multimedia Lab](#)

Feb 2024 - Dec 2024

Project: Harnessing the capabilities of social robots to identify individuals with ADHD

- Developed web-based experiments using **React** to create dynamic, responsive interfaces for collecting data on attention patterns.
- Integrated communication between a **QT robot** and the web app by sending requests through a **JavaScript API**, enabling real-time interactions and responses between the robot and the system.

PROJECTS

DevTrack - Developer Task & GitHub Activity Manager

Tech Stack: React, Node.js, PostgreSQL

- Designed and developed responsive React interfaces and reusable UI components for task management and GitHub activity tracking, focusing on usability and real-time data visualization.
- Built and integrated RESTful APIs with a Node.js backend and PostgreSQL database, enabling scalable data management and seamless frontend-backend communication.

AI Medical Assistant – Symptom Analysis & Triage System

Tech Stack: Next.js, FastAPI, PostgreSQL (pgvector), OpenAI GPT-4o-mini

- Developed an interactive Next.js frontend that delivers AI-generated symptom assessments through intuitive user workflows and responsive user interfaces.
- Engineered the backend using FastAPI, pgvector, and OpenAI models, implementing embedding-based retrieval and scalable APIs for accurate symptom analysis and structured recommendations.

Unpolished - Authentic Social Networking Platform

Tech Stack: React Native, Expo Router, Supabase, PostgreSQL, AsyncStorage

- Building a cross-platform mobile application with React Native and Expo Router, creating responsive user interfaces, authentication flows, protected routes, and platform-specific experiences across iOS and Android.
- Architecting the full-stack platform using Supabase and PostgreSQL, implementing secure authentication, scalable data models, offline session persistence, and real-time social interactions centered around authentic content sharing.

SKILL

Typescript, React Native, Next.js, Redux, Postgres, FastAPI, Node.js, Express.js