

AMMAR ATEYA

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EDUCATION

University of Michigan - Ann Arbor

Expected Graduation: Apr 2026

B.S. in Computer Science and Linguistics, Minor in Mathematics | GPA: 3.7/4.0

Ann Arbor, MI

- **Relevant Coursework:** Data Structures and Algorithms, Object Oriented Programming, Computer Organization, Discrete Mathematics, Linear Algebra, Statistics and Data Analysis, Linux Programming
- **Activities and Societies:** V1 Entrepreneurship, Muslim Engineering Society, Michigan Hackers, Ling Club
- **Awards/Programs:** Pfizer National Merit Scholarship Recipient, Michigan Seal of Biliteryacy in Spanish, AP Scholar with Distinction, Hacklytics 2024 National Security Agency Award, Michigan Founders' Fund Emerging Talent

TECHNICAL SKILLS

Languages: C++/C, Python, JavaScript, TypeScript, HTML/CSS, SQL

Frameworks/Tools: React.js, Next.js, Express/Node.js, Selenium, Figma, Tailwind, Docker, Kubernetes, PostgreSQL

EXPERIENCE

Software Engineer Intern

Jun 2024 – Aug 2024

OxKnowledge

Ann Arbor, MI

- Developed a **full stack** Notion-style knowledge base editor in **Next.js** for clients to manage documentation.
- Managed **end-to-end cloud deployment on Vercel**, automating the build process with **CI/CD pipelines** to streamline continuous integration, updates, and minimize downtime.
- Designed and implemented SQL schema, integrated with **Supabase to handle real-time data and user authentication**, improving query performance by **25%** and ensuring efficient data management.
- Refactored and debugged legacy code, **reducing errors by 40%** and improving system stability.

Technology Director

Sep 2023 – Present

Muslim Interscholastic Tournament Detroit (MIST)

Detroit, MI

- Streamlined processing of **1000+ competitor registrations** via Python, GraphQL, and Selenium.
- Developed data pipeline to process and validate student financial aid coupons using GraphQL reading from CSV, eliminating human error and **saving 3+ hours of manual labor**.

PROJECTS

PeteCode: LeetCode Solution Platform | React, FastAPI, Supabase, GroqCloud, ElevenLabs API, TypeScript

- Developed an AI-powered platform using **React** for the frontend and **FastAPI** for the backend to provide solutions and explanations for LeetCode problems, enhancing coding practice and interview preparation.
- Integrated API responses from **GroqCloud** and **ElevenLabs** using **FastAPI**, delivering auditory explanations to improve accessibility for auditory learners.
- **Implemented user authentication** and resolved API integration challenges, optimizing app performance and enhancing the overall user experience.

EHR Data Aggregation Platform | Python, FastAPI, Express, React.js, Supabase, Next.js

- Developed **ARISE**, a healthcare data aggregation platform using **Python, Supabase and PostgreSQL**, enabling users to consolidate medical records from uploaded PDF documents into a unified system for easy access and analysis.
- **Leveraged OpenAI's GenAI API** to deliver custom health summary songs in the voice of famous artists to users, simplifying understanding of complex, crucial health information.

Reddit ML Classifier | C++, lldb

- Developed **machine learning classifier** in C++, leveraging **natural language processing** techniques to predict project topics from posts on a general data structures and algorithms learning forum; achieved **92% accuracy**.
- Implemented a binary search tree for efficient data storage and retrieval, and utilized recursive algorithms and custom comparators to maintain the tree's balance and optimize search operations.

HUDA Clinic Website | React.js, Tailwind, Google Cloud Platform

- Migrated an outdated legacy codebase to a modern, responsive React site for a charitable clinic in Detroit.
- Automated patient onboarding by integrating Athena APIs with website registration portal.
- Improved UI/UX by **reducing page load time by 30%**, leading to a smoother user experience.

ADDITIONAL

Interests: International Cinema, Film Photography, Language Learning, Track & Field, Soccer, Weightlifting

Natural Languages: English (Native), Arabic (Native), Spanish (Bilingual)