AMMAR ATEYA

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EDUCATION

University of Michigan - Ann Arbor **Expected Graduation: Apr 2027**
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, Colorstack
- **Awards/Programs:** Pfizer National Merit Scholarship Recipient, Michigan Seal of Biliteracy 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 – Present
0xKnowledge *Ann Arbor, MI*

- Developed a Notion-style knowledge base editor in Next.js for clients to manage documentation.
- Designed and implemented SQL schema for the visual editor, **improved query performance by 25%.**
- 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**.
- Utilized Postman to carry out 20+ tests to fine-tune GraphQL queries, ensuring flawless data interactions.

PROJECTS

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.

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- Migrated an outdated legacy codebase to a modern, responsive React site for a charitable clinic in Detroit.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.

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.

ADDITIONAL

Interests: International Cinema, Film Photography, Language Learning, Track & Field, Soccer, Weightlifting
Natural Languages: English (Native), Arabic (Native), Spanish (Bilingual)