

AMMAR ATEYA

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EDUCATION

University of Michigan - Ann Arbor

Expected Graduation: April 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, Computer Organization, Discrete Mathematics, Linear Algebra, Statistics and Data Analysis, Object Oriented Programming, Calculus II, Linux Programming

Activities and Societies: Muslim Engineering Society, V1, Muslim Students' Association, Ling Club, Michigan Hackers

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, R, Julia, SQL

Frameworks/APIs : React, Next, Express, Selenium, Tailwind, OpenAI

Developer Tools: Linux/Bash, Firebase, PostgreSQL, VSCode, Vim, Git

Technologies: Microsoft Excel, PowerPoint, Access; Adobe Creative Cloud Suite, Figma

EXPERIENCE

Software Engineer Intern

June 2024 – Present

OxKnowledge

Ann Arbor, MI

- Implementing and optimizing natural language query processing using **text-to-SQL**, enhancing the system's ability to translate employee queries into actionable database interactions
- Actively participating in agile workflows, contributing to rapid prototyping and iterative development processes to refine and enhance the product's functionality and user experience

Technology Director

September 2023 – Present

Muslim Interscholastic Tournament Detroit (MIST)

Detroit, MI

- Employed streamlined management 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 and mutations, ensuring flawless data interactions

PROJECTS

EHR Data Aggregation Platform | Python, FastAPI, Express, React, 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 provide suggestions to users based on aggregated data, while enhancing user engagement by playing custom health summary songs in the voice of famous artists

HUDA Clinic Website | React, Next, Tailwind, Google Cloud Platform

- Led a team of college student developers in migrating an outdated Flutter/Dart codebase to a modern, responsive React/Next.js site for a charitable clinic in Detroit
- Will contribute to development of new patient registration portal overhaul, in August 2024

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 **90% 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/Sports Photography, Track & Field Running, Soccer

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