Ahmed Amrou

U.S. Citizen

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Education

The University of Toledo   Jun 2026
Bachelor of Science in Computer Science and Engineering Technology   *Current GPA: 3.97/4.0*

Awards: President's List, Community Service Seal

Relevant Coursework

Courses: Object Oriented Programming, Data Structures and Algorithms, Database-Driven Websites, Linear Algebra

Skills

Languages: Python (proficient), Swift (proficient), HTML/CSS (proficient), JavaScript (intermediate), SQL (intermediate), C (beginner)
Tools: Git/GitHub, XCode, Visual Studio Code, Postman, PostgreSQL
Frameworks/Libraries: MLKit, SwiftUI, NodeJS, ReactJS, FastAPI, OAuth 2.0, Alembic, Passlib, SQLalchemy

Projects and Experience

IT Project Management and Enterprise Apps Intern | *Welltower*   May 2024 – Aug 2024
- Completed database migration (SQL) with 98% validation accuracy to a new enterprise resource planning system that resulted in 47% faster load time
- Supported head project manager in the development of three company enterprise resource apps in fields of property management, finance, and human resources by creating documentation in Confluence and by conducting unit tests
- Collaborated with and led 27 other interns in planning, tracking, and coordinating projects over 12 weeks, utilizing Jira to track project progress
- Utilized advanced Excel formulas for preprocessing and validation of a dataset comprising over 1,000 rows and 46 columns of property data, ensuring data integrity for seamless migration to a new property management software
- Created four dashboard views in PowerBI sourcing Jira ticket and time tracking data from a SQL server

RescueLens - IOS App | *XCode, Swift, SwiftUI, CoreML, MobileNetV2, OpenAI*   May 2024
- Designed and developed an IOS app that allows users to take a photo of an injured animal and provides immediate care instructions
- Utilized MobileNetV2 for image classification that occurs in 0.054 seconds on average with up to 92.4% accuracy
- Leveraged OpenAI API queries (average call 0.46 seconds) to generate the best course of action for the injured animal
- Trained a machine learning model for animal recognition using XCode and 1,200 images, but switched to MobileNetV2 for higher accuracy

Records API | *Python, PostgreSQL, SQLalchemy, FastAPI, Git/GitHub, VS Code*   Jan 2024 – Feb 2024
- Implemented and designed an API that enabled swift data retrieval (74.7 ms average API call) from a PostgreSQL database containing public records submitted by users
- Used SQLalchemy to simplify querying and to reduce code by 26 lines
- Utilized OAuth 2.0 and JWT bearer tokens as security measures to prevent identity theft and fraud
- Leveraged Alembic to seamlessly migrate database versions, resulting in a 100% success rate and zero data loss

Organizations and Leadership

Alpha Lambda Mu National Fraternity | *Director of Administration*   Jan 2023 – Present
Served as a leader of over 50 members locally and 400 nationally in the first and only Muslim-interest fraternity in America

Cherry Street Mission | *Lead Volunteer*   Sep 2018 – Present
Led volunteer efforts in a non-profit dedicated to providing shelter, food, and resources to the less fortunate