

# AHMED MAHER

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## Education

**Egypt Japan University Of Science & Technology**

**Oct. 2020 – Aug. 2025**

*Bachelor of Science in Engineering, Computer Science and Engineering Major*

*Alexandria, Borg El Arab*

## Relevant Coursework

- Data Structures
- Software Methodology
- Algorithms Analysis
- Database Management
- Machine Learning
- Advanced Programming
- Software Engineering
- Discrete Mathematics
- PBL on CSE
- Data Structures
- Data Engineering
- Deep Learning
- TOC
- Parallel and Distributed Computing
- Cryptography

## Technical Skills

**Languages:** Python, C, HTML/CSS, JavaScript, SQL, PostgreSQL, Dart

**Developer Tools:** VS Code, Pycharm, Google Cloud Platform, Android Studio, CLI

**Technologies/Frameworks:** Linux, Git & GitHub, JUnit, WordPress, IOT, Arduino

**Data Science:** Machine Learning, Deep Learning, Reinforcement Learning, Data Analysis, Data Acquisition, Data Engineering, Data Visualization, Pandas, NumPy, Matplotlib, Scikit-learn, TensorFlow

## Projects

**AI-Driven Sports Video Summarization for Automated Highlights**

**April 2024**

- Collaborated with a team on implementing a deep learning-based system for automatic sports video summarization using SoccerNet-V2 dataset.
- Utilized ResNet for feature extraction and a context-aware loss function for action spotting.
- Developed a script for generating highlight videos based on predicted actions.
- Achieved significant improvement in action detection accuracy and performance evaluation on SoccerNet-V2 dataset.

**Neural network analysis** | *Python, Selenium, NetworkX,*

**November 2022**

- Scraped tweets from a Twitter user's timeline using selenium and sncrape library.
- Constructed a network graph representing user mentions in tweets.
- Calculated key network centrality measures, including degree and betweenness centrality.
- Visualized centrality results and network graphs for insights.
- Exported data in CSV and JSON formats for further analysis.

**Taxi Route Optimization with Reinforcement Learning** | *Python, Gymnasium, DataCamp*

**July 2024**

- Developed a reinforcement learning agent using Q-learning to navigate a taxi in the Taxi-v3 environment provided by OpenAI's Gymnasium.
- Optimized taxi navigation for efficient passenger pickups and drop-offs using an epsilon-greedy policy to balance exploration and exploitation.
- Successfully trained the agent over 2000 episodes, refining route planning and decision-making.

**Bus Seat Reservation App** | *Flutter, Firebase, Android Studio, UI/UX*

**March 2023**

- Developed a mobile app using Flutter and Firebase for bus seat reservations at my university.
- Implemented user registration and login functionality for secure access to the reservation system.
- Handled user-friendly error messages and notifications to enhance the user experience.
- Visualized centrality results and network graphs for insights.
- Exported data in CSV and JSON formats for further analysis.

**Transaction Management GUI** | *Python*

**October 2021**

- Designed a sample banking transaction system using Python to simulate the common functions of using a bank account.
- Created a GUI that supports actions such as creating an account, deposit, withdraw, list all accounts, etc.
- Implemented object-oriented programming practices such as inheritance to create different account types and databases.

## Certifications

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- Datacamp Intermediate SQL
- Datacamp Supervised and Unsupervised Machine Learning
- Datacamp Git
- ITI Flutter Application Development
- IBM Skillbuild AI/ML
- IBM Cloud Foundation
- FreeCodeCamp Relational Database
- Robotics & Automation

## Competitions and Volunteering

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**National Underwater Robotics Challenge (NURC)** **2024**

*Arizona*

- As a member of the VORTEX Robotics team, contributed to winning 1st place in the college category.

**Intel BASEF Science Fair** **2018**

- Developed "Maritopia," a marine automated safety and control system using Arduino, FPV system, US Radar, Kinect IR, Hand Gestures control system, shields for remote controlling and data visualization, and IoT.

**Regional ISEF** **2020**

**VCSEF (Victoria College Science and Engineering Fair)** **2018,2019**

*First place grand award recipient*

**RoboCup Competition** **2018**

**Faculty of Alexandria 8th students conference for research and innovation** **2019**

**British Council Taqaddam competition** **2018**

**Victory College Loyal Victorians** **2019**