

MAHMOUD ABDELAZIM

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Education

Cairo University

Sep 2018 – Aug 2022

Bachelor of Science in Computer Science, GPA: 3.64

Cairo, Egypt

Relevant Coursework

- Data Structures
- Algorithms
- Operating Systems
- Machine Learning
- Software Engineering
- Database Management
- Web Technology
- Computer Architecture

Experience

Egyptian Military

Jan 2023 – Present

Mandatory military service

Cairo, Egypt

- Currently doing my mandatory one-year Egyptian military service week-on, week-off, which will end by February 2024.

IBM

Jun 2022 – Nov 2022 (5 months)

Software Developer Intern

Cairo, Egypt

- Worked as an IBM BPM Application Developer in a governmental project for the administrative prosecution in Egypt.
- Worked with BPM Cloud Pak, JavaScript and IBM DB2.
- Worked as a back-end developer using Node.js and Express.js during IBM summer training for an artificial intelligent city project with the name of IBM Intelligent City.
- Engaged in daily scrum meetings to assess my work and get feedback from my leads.

Microsoft

Jul 2021 – Sep 2021 (2 months)

Software Engineer Intern

Cairo, Egypt

- Worked on a document-level domain classification model to be used to add the domain as a feature for the machine translation model.
- Created a web application exposing the model using Flask.
- Worked with Python, PyTorch, SKLearn and Transformers pre-trained models (BERT and XLNet).

Projects

IBM Intelligent City | JavaScript, Node.js, Express.js, MySQL, Watson Assistant

- An artificial smart city project that allows residents to register their personal cars, visitors cars, taxis and delivery merchants using a chatbot.
- Allows vehicles to pass by the smart gates by scanning their car plates against registered cars.
- I worked in the backend integration team where we used Node.js and Express.js to integrate all parts of the application together and allow the interaction between the Mobile UI, MySQL database, Watson Assistant server, the image processing server and Google API Text-To-Speech.

Party Up (Graduation Project) | Java, Spring, TypeScript, Angular, Python, SKLearn, Flask

- A platform that offers a better gaming experience by testing users personality features and matching players based on their personalities using unsupervised learning techniques (K-Means Clustering and K-Nearest-Neighbors).
- Created the backend for the platform using Spring Framework, implemented the authorization and authentication requirements and integrated the front-end angular application with the machine learning player-matching server and the MySQL database.
- Created the machine learning model that does K-Means clustering on players personality features and finds best-match players by applying K-Nearest-Neighbors on user's cluster.

Technical Skills

Languages: Java, C++, JavaScript, SQL, Python

Technologies/Frameworks: Spring Framework, Spring Boot, React.js, JUnit, Mockito, Node.js, IBM BPM

Tools/Platforms: Git, GitHub, Docker

Extracurricular Activities

Google Developer Students Club

Mar 2020 – Jul 2021

Social Media Head

Cairo University

- * Was a core member of the founding team for GDSC in Cairo University, responsible for the social media for the club and marketing our workshops, talk and events.
- * Recruited 5 members after team expansion to be in the social media committee, assigning them tasks, deadlines and holding regular meetings to assess their work and give them feedback.
- * As a whole team, we successfully launched 20+ workshops and events in different programming fields to help students learn more about Google technologies.

Minders Student Activity

Oct 2020 – Jul 2021

Social Media Member

Cairo University

- * Was a member of the social media committee at Minders, a student club that helps students learn about entrepreneurship, project management and technology.
- * Won the best member award during the second quarter of the season.

Honors and Awards

- Qualified to the Egyptian Collegiate Programming Contest (ECPC) 2022 ranking 6th out of 230 teams in the qualifications contest.
- Ranked 3rd in Cegedim Egypt Hackathon Winter 2022 out of 12 teams, where we created a complete web application in 3 days for handling hospital bed registration for covid patients.
- Qualified to the Egyptian Collegiate Programming Contest (ECPC) 2021 ranking 11th out of 135 teams in the qualifications contest.
- Ranked 21st in Egypt in Google Hash Code 2020, and 1276th worldwide out of 10K+ participating teams.