

# MAHMOUD ABDELAZIM

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<https://mahmoud-abdelazim.onrender.com>

## EDUCATION

### Cairo university

Bachelor's degree in computer science

GPA: 3.64

Grade: Excellent with honors

SEP 2018 – AUG 2022

Cairo, Egypt

## RELEVANT COURSEWORK

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

## EXPERIENCE

### Egyptian Military

Mandatory Military Service

JAN 2023 – Present

Cairo, Egypt

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

- Building a complete system from scratch for handling security gates check-in and check-out for the military judiciary authority by extracting visitors' info from their scanned national IDs, using Tesseract engine, Flask, Node.JS and React.
- Contributed to the development and maintenance of a faxes system for the military judiciary authority using Django and vanilla JavaScript that allows for an automated handling of faxes between different departments in the authority.

### IBM

Software Developer Intern

JUN 2022 – NOV 2022 (5 Months)

Cairo, Egypt

Worked in the IBM Business Process Management and Automation Team (BPM), which is a part of IBM Consulting that develops business automation applications serving various entities all over the world.

- Worked as a BPM 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 during IBM summer training using Node.js for an intelligent city project with the name of IBM Intelligent City.
- Engaged in daily meetings to assess my work and get feedback from my leads.

### Microsoft

Software Engineer Intern

JUL 2021 – SEP 2021 (2 Months)

Cairo, Egypt

Worked in the Data Extraction from Documents team at Microsoft Advanced Technology Lab in Egypt.

- Worked on a text document-level domain classification model, a model that classifies text documents to their appropriate domains to add the domain as a feature for the machine translation model.
- First created the model from scratch using PyTorch and then fine-tuned pre-trained models (Google's BERT and XLNet).
- Developed a web application exposing the model using Flask for evaluating the model.
- Did a final presentation for what I have accomplished and learned during my internship.

## TECHNICAL SKILLS

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

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

**Tools/Platforms:** Git, GitHub, Docker

## PROJECTS

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### 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 back-end integration team (with Node.js) where we integrated all parts of the application together and allowed the interaction between the Mobile UI, MySQL database, Watson Assistant server, the image processing server, and Google Text-To-Speech API.

### 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).
- Developed the back-end APIs for the platform using Spring Framework, implemented the authentication and authorization requirements and integrated the machine learning player-matching server.
- Created a machine learning model that applies K-Means clustering on players personality features and finds best-match players by applying K-Nearest-Neighbors on user's cluster.

## EXTRACURRICULAR ACTIVITIES

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### Google Developer Students Club

*Social Media Head*

**JUN 2020 – JUL 2021**

*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 five members after team expansion to be in the social media committee, assigning them tasks, deadlines and holding regular meetings to discuss ideas, 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 in Cairo university learn more about Google technologies.

### Minders Student Activity

*Social Media Member*

**Oct 2020 – Jul 2021**

*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

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- 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 full-stack website in 3 days for handling hospital bed registration for covid patients using Spring Boot and JavaScript.
- 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.

## LANGUAGES

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- Arabic
- English