

AHMED MOHAMED ABOUTALEB

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SUMMARY

Third-year computer science student with experience in full-stack development and building practical solutions. Completed a full-stack developer nanodegree before university. Interested in an internship at Microsoft Egypt to gain more experience and contribute to meaningful projects.

EDUCATION

Bachelor of Computer Science, Helwan University

2022 - 2026

GPA

3.36 / 4.0 (*Very Good*)

SKILLS

Programming Languages C, C++, Typescript

Technical Skills Next.js, NestJS, Git

Databases MongoDB, PostgresDB, MSSQL Server

Soft Skills Teamwork, Leadership, Communication, Problem-Solving

EXPERIENCE

Problem Setter & mentor

Aug 2024 - Present

HelwanICPC

Remote

- Designed and developed algorithmic problems for competitive programming contests.
- Mentored students in problem-solving strategies, and competitive programming techniques.

Advanced Full-Stack Trainee

Jun 2022 - Jun 2022

EgyptFWD, Udacity

Remote

- Worked on developing simple image processing API using Express.js.
- Developed rest API for store front system (CRUD).
- Hosted Full-Stack web application using AWS and CircleCi.

PROJECT EXPERIENCE

Gomoku Intelligent Player.

- Developed an AI Gomoku player using the Minimax algorithm with Alpha-Beta Pruning for optimized decision-making.
- Designed custom heuristic functions to improve board state evaluation and gameplay strategy.
- Led the project team, managed tasks, ensured code quality, and delivered a functional AI capable of competing in Gomoku games.
- ([Source code](#))

E-commerce website.

- Built a full-featured e-commerce website using PHP and MySQL as a final project for an IT course.
- ([Source code](#))

Animals Filter.

- Created a web application using ReactJS (front-end) and Express.js (back-end) to generate and search random animal data.
- Focused on applying SOLID principles to ensure clean, maintainable, and scalable code.
- ([Source code](#))

Hotel Reservation System.

- Developed a console-based Java application for hotel receptionists to manage reservations and operations.
- Focused on applying Object-Oriented Programming (OOP) principles.
- ([Source code](#))

CPU Priority Scheduling Simulator.

- Created a simulation of the CPU Priority Scheduling algorithm to visualize how it works.
- ([Source code](#))

HONORS & AWARDS

- [Advanced Full-Stack Web Development certificate from EgyptFWD, Udacity](#)
- [Reached Specialist at Codeforces](#)
- [JavaScript \(Basic\) Certificate from HackerRank](#)