

# Youssef Ahmed

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## EDUCATION

**Faculty of Computer and Artificial Intelligence**

Sep 2020 – Jun 2024

*Bachelor of Computer Science*

## EXPERIENCE

**Full-Stack Developer**

Feb 2025 – Present

*Taza Company*

*Cairo, Remote*

- Refactored code by extracting reusable components and structuring the project
- Added new features and fixed bugs to enhance application functionality
- Fetched and managed data efficiently using React Query
- Improved code maintainability by applying design patterns

**Software Engineer**

Jun 2023 – Jul 2024

*Remotasks & Scale AI*

*San Francisco, Remote*

- Solve coding challenges in C++, Python, and Java to train and refine a generative AI model
- Focus on efficient algorithm development, solution optimization, and problem-solving
- Improve code generation by writing, refining, and evaluating functional, high-performance code
- Analyze and explain different approaches to maximize model effectiveness

## PROJECTS

**Auction Soft** | *React, Node.js (Express.js), MySQL, Drizzle (ORM), Web Socket*

Jan 2025

- Implemented real-time bidding functionality with WebSockets
- Enabled users to list products, set bidding periods, and track live bids
- Integrated a system to connect buyers with sellers after auctions end
- Developed a scheduled script to run every minute, updating tables and removing expired products

**Teck Tracker** | *React, Tailwind CSS, Framer Motion*

Oct 2024

- Designed interactive charts and visualizations to display trends and insights
- Utilized existing web scraping data to compare prices and reviews from Amazon, Noon, and Jumia
- Optimized performance and responsiveness for a smooth user experience

**Make A Square** | *Java, Multi Threading, GUI*

Dec 2023

- Developed a Java-based puzzle solver with a graphical user interface
- Implemented multi threading to optimize the search for valid solutions
- Designed a recursion algorithm to arrange Tetris-shaped pieces into a perfect fit
- Enhanced performance and responsiveness with concurrent processing

## VOLUNTEER ACTIVITIES

**Instructor & Head of mentors**

Feb 2025 – Present

*ICPC Helwan Community*

*Helwan university*

Mentor in the college's problem-solving community, guiding newcomers in learning programming for problem-solving. Led teams to achieve high ranks in competitions like ECPC, helping them develop competitive programming skills.

## TECHNICAL SKILLS

**Frameworks:** React, Node.js, Express.js, Nest.js, Tailwind CSS, Bootstrap

**Languages:** C++, Java, Python, TypeScript, JavaScript, HTML, CSS

**Developer Tools:** Git, GitHub, Docker, VS Code, Postman, Swagger, Socket.io, GraphQL

**Core Skills:** Problem solving, Algorithms, Data structures, Design patterns, OOP, Databases

**Databases:** Postgres, MySQL, MSSQL, MongoDB (NoSQL)

## AWARDS & CERTIFICATIONS

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### The ICPC Africa & Arab Championship

2023, 2024

- ACPC finalist twice in a row
- Achieved 1st place at Helwan University in the ECPC 2023
- Demonstrated strong teamwork and collaboration in high-pressure programming competitions
- Trained and mentored individuals and teams who successfully qualified for the ECPC

### NodeJS Certificate

Mar 2025

- **Backend Development:** Node.js, Express.js, REST APIs, GraphQL, MVC architecture
- **Databases:** MongoDB, Mongoose ODM, MySQL, SQL, NoSQL, Sequelize.js
- **Authentication:** JSON Web Token (JWT)
- **Programming & Tools:** JavaScript, TypeScript, Postman

### NodeJS behind the scene Certificate

Feb 2025

- **Node.js Architecture:** Life cycle, C++ integration, event loop, and threading model
- **Performance & Optimization:** Libuv, OS delegation, multi-threading, and benchmarking
- **Scalability & Clustering:** Event loop blocking, worker threads, PM2, and cluster mode
- **Advanced Concepts:** Debugging, multicore execution, and complex problem-solving