

# Youssef Ahmed

+201277321637 | Cairo - Egypt | [yousseffcai@gmail.com](mailto:yousseffcai@gmail.com) | [linkedin.com/in/yussif-ahmed](https://linkedin.com/in/yussif-ahmed) | [github.com/Yusef-Ahmed](https://github.com/Yusef-Ahmed)

## EDUCATION

### Faculty of Computer and Artificial Intelligence

Sep 2020 – Jun 2024

*Bachelor of Computer Science*

## EXPERIENCE

### Freelancer

Apr 2025 – Present

Wayz (*Scooter Rental Platform*)

- Developed full-stack scooter rental web platform using React.js and Node.js, both with TypeScript
- Dockerized the app with Nginx, serving the frontend as static files and integrating the backend with PostgreSQL
- Refactored code by fixing database schema issues and resolving logic and functional bugs
- Built a file upload module to handle frontend uploads and provide backend-generated access links
- Ensured the website is fully responsive and compatible across all devices
- Developed a response interceptor to gracefully handle backend errors using an enum-based feedback system

### Full-Stack Developer (part time)

Jan 2025 – May 2025

Taza (*Fresh Produce Delivery Platform*)

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

### Employee Directory | *React, Node.js (Express.js), MySQL, Drizzle (ORM)*

Mar 2025

- An application designed to store and manage employee information within an organization
- Enables employees and HR teams to search and view employee details
- Supports management of data such as names, job titles, departments, and contact information
- Streamlines internal communication and organizational structure visibility

### 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

## 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)

## VOLUNTEER ACTIVITIES

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### **Instructor & Head of mentors**

Feb 2023 – 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.

## 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