Youssef Ahmed

+201277321637 | Cairo - Egypt | youssefcai@gmail.com | linkedin.com/in/yussif-ahmed | github.com/Yusef-Ahmed

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 with Higher-Order Components

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 (SQL), MySql (SQL), MSSQL (SQL), MongoDB (NoSQL)
ORMs/ODMs: Drizzle (ORM), Sequelize (ORM), Mongoose (ODM)

Awards & Certifications

The ICPC Africa & Arab Championship   2023, 2024
- Achieved 1st place at Helwan University in the ECPC 2023
- Qualified for the ACPC twice in a row after advancing from the ECPC
- Demonstrated strong teamwork and collaboration in high-pressure programming competitions
- Developed expertise in problem-solving, algorithms, and time management through competitive programming
- Gained experience working under strict time constraints and strategizing solutions as a team

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