

# Abdallah Mohsen

Software Engineer

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## Summary

- Full-Stack Developer with hands-on experience delivering real-time web applications, secure transaction systems, and integrated digital platforms.
- Proven ability to design and implement scalable, maintainable system architectures using modern development practices and cloud-native tools.
- Committed to clean, efficient code and focused on building user-centered, high-impact products that drive business value.

## Education

**Cairo University**, BSc. in Computer Science and Artificial Intelligence Sept 2020 – July 2024

## Experience

**Web Developer Freelancer** June 2025 – Present

- Developing and maintaining an online booking system for XIOT.

**Software Engineer**, Tecnoblocks Sept 2024 – June 2025

- Built and integrated RESTful APIs and WebSocket endpoints to support real-time features using Socket.IO.
- Gained hands-on experience integrating payment gateways like Stripe and PayPal, enabling secure transactions, subscription billing, and webhook handling.

**Backend Intern**, Macber July 2024 – Oct 2024

- Developed and deployed a full-featured HR system, enhancing automation of core processes and improving administrative efficiency.
- Gained valuable insights into organizing code effectively, applying various design patterns, and understanding fundamental principles of software architecture.

## Projects

**Online XO - Solo Project** Live | Code Oct 2024

- An interactive online Tic-Tac-Toe (XO) game using Next.js and Socket.IO, featuring real-time multiplayer functionality, with dynamic board size.

**Emails Marketplace** Live | April 2025 – May 2025

- Implemented user resale and auction features for digital assets.
- Ethereum payment for email purchases and real-time notifications.

**Certificates Platform** Live | April 2025 – May 2025

- Built a platform to store certificates safely in blockchain.
- Integrated Stripe for user subscriptions and payment processing.

**Chatbot Generator - Solo Project** Live | Code May 2025 – June 2025

- A chatbot builder platform that allows users to visually design conversation flows and embed them into their websites or apps (npm package) like Telegram bots.

## Skills

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- **Programming Languages:** TypeScript, JavaScript, Python, C++ , C#.
- **Backend Development:** PHP Laravel, ASP.NET, NestJS, Django, Socket.IO, WebRTC, RabbitMQ.
- **Frontend Development:** React, Next.js.
- **Payment Integration:** Cryptocurrencies, Stripe, Webhooks, PayPal.
- **Database Management:** MySQL, PostgreSQL, MongoDB, MS SQL Server.
- **Software Architecture:** Clean Architecture, Repository Pattern, SOLID Principles.
- **Testing:** Jest, Cypress.
- **CS Fundamentals:** Data Structures, Algorithms, Networking.
- **Cloud & DevOps:** Firebase, Azure, Cloudinary, Linux (Shell Scripting & CLI Tools), Docker, Nginx, Vercel, Glitch.

## Personal Interests & Hobbies

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- **Problem solving:** Active problem solver with 350+ problems solved on LeetCode and 940+ problems on Codeforces, demonstrating strong algorithmic thinking and problem-solving skills.
- **Programming Competitions:** Contributed to the Egyptian Collegiate Programming Contest (ECPC) twice, showcasing teamwork and competitive programming expertise.

## Languages

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Excellent  
Very good

Arabic  
English