

Abdallah Mohsen

Software Engineer

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Summary

- Full-Stack Developer with proven expertise in building real-time web applications, secure payment systems, and blockchain-integrated platforms. Skilled in crafting scalable, high-performance architectures using TypeScript, React, NestJS, and cloud-native tools, with a passion for clean code and product-focused development.

Education

Cairo University, BSc. in Computer Science and Artificial Intelligence Sept 2020 – July 2024
• Cumulative GPA: 2.86/4.0

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

- **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.