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
- 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.

Personal Interests & Hobbies

- **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.