

Ahmed Mohamed Abdelsalam

Software Engineer | Full-Stack Developer

Contact Information

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Summary

Results-driven Full-Stack Software Engineer with 4+ years of experience architecting and developing scalable applications across FinTech and Travel domains. Specialized in modern frameworks (Next.js, React, NestJS, Python) and robust system architecture utilizing message brokers (Redis, RabbitMQ) and containerization (Docker). Proven track record of building complex, high-performance systems—including a full-scale trading platform—while leveraging CI/CD pipelines and testing (Jest) to ensure seamless delivery and reliability within international cross-border teams.

Skills

Frontend: Next.js, React.js, TypeScript, JavaScript (ES6+), Tailwind CSS

Backend: NestJS, Python, Flask, Express.js, RESTful APIs

Databases & Messaging: Redis, RabbitMQ

DevOps & Testing: Docker, CI/CD, GitHub Actions, Jest

Architecture & Networking: System Architecture, CCNA Certified (Enterprise Networking & Security)

Tools & Methodologies: Git, Agile/Scrum

Experience

VBOOKING | FULL STACK DEVELOPER

DUBAI, UAE (REMOTE) | DEC 2025 – AUG 2026

- Architected a decoupled, modular travel CRM and booking engine using Express.js, React, and TypeScript, refactoring a legacy monolith into a scalable, high-availability system.
- Engineered an isolated, multi-tenant payment abstraction engine using Factory and Strategy design patterns, seamlessly integrating 6 regional and BNPL gateways (Tabby, Tamara, Stripe, PayTabs, NGenius, UTAP).
- Designed a dynamic PostgreSQL schema (EERD) using JSONB, enabling custom product fields, parent-child booking relationships, and point-of-sale data snapshotting to protect transactions from supplier price updates.
- Integrated third-party travel APIs (TBO, Akbar), normalizing heterogeneous supplier payloads into unified accommodation and flight schemas for accurate itinerary generation.
- Optimized API response payloads and database indexing strategies, drastically reducing query latency for multi-supplier travel itineraries and quotation generation.

MUTQINAI | FRONT-END DEVELOPER

DUBAI, UAE (REMOTE) | SEP 2024 – SEP 2025

- Delivered 10+ scalable web applications and marketing platforms using Next.js, TypeScript, and Tailwind CSS, maintaining a 100% client satisfaction rate across diverse freelance projects.
- Engineered a real-time live football scores web application and automated data-ingestion pipelines using Python and Telegram bots, reducing manual data entry effort by over 80%.
- Developed custom desktop automation tools using Python and Tkinter, streamlining client GUI operational workflows and administrative tasks.

ADVERTISING AGENCY (CONTRACT) | FRONTEND ENGINEER

CHICAGO, IL, USA (REMOTE) | MAR 2024 – SEP 2025

- Engineered and optimized high-conversion landing pages for critical marketing campaigns using Next.js, implementing advanced techniques (code-splitting, lazy loading, and caching) to exceed Core Web Vitals, SEO, and accessibility standards.
- Architected scalable, maintainable UI solutions applying clean architecture, reusable components, and atomic design principles.
- Collaborated cross-functionally with designers and marketers to align UI/UX with campaign goals, consistently achieving lightning-fast page response times as low as 500ms.

3TEEB | FULL STACK DEVELOPER

SAUDI ARABIA (REMOTE) | 2023 – 2024

- Led the end-to-end development of a high-frequency trading platform (similar to Binance), handling complex financial logic and real-time data.
- Optimized backend performance using Django and Redis for caching, resulting in an 80% reduction in API response times.
- Developed a dynamic, responsive dashboard with Next.js, ensuring sub-second updates for live market prices and user portfolios.
- Enhanced system security by implementing robust authentication and authorization protocols for financial transactions.

FREELANCE SOFTWARE ENGINEER

MOSTAQL PLATFORM | 2021 – 2023

- AI & Bot Engineering: Architected and deployed intelligent Python-based Telegram bots integrated with OpenAI's ChatGPT API to automate natural language processing (NLP) and drive automated user engagement.
- Web Applications: Built dynamic, high-performance sports and football platforms, optimizing frontend rendering speed and streamlining backend data delivery pipelines.
- Full Lifecycle Ownership: Executed complete software development lifecycles (SDLC)—from client requirements gathering and database schema design to final cloud deployment and production monitoring.
- Client Portfolio Delivery: Delivered a diverse range of scalable software solutions for multiple regional clients, maintaining agile delivery standards and high client satisfaction rates.

INTERSHIPS

APRC | SOFTWARE ENGINEER INTERN

WASHINGTON DC, USA (REMOTE) | 2024

- Analyzed cross-departmental software workflows, focusing on optimizing data processing pipelines and implementing access control mechanisms to enhance system security.
- Collaborated with senior IT professionals to monitor large-scale infrastructure operations, gaining hands-on insights into network management, databases, and cybersecurity protocols.

SIDI KERIR PETROCHEMICALS CO. (SIDPEC) | INDUSTRIAL AUTOMATION INTERN

ALEXANDRIA, EGYPT (ON-SITE) | 2023 – 2024

- Investigated enterprise-level industrial software architecture, focusing on the seamless integration of IT networking, databases, and automated control systems.
- Evaluated system security practices to ensure data integrity, high availability, and protection within critical, large-scale industrial environments.

Education

PHAROS UNIVERSITY IN COLLABORATION WITH KTH ROYAL INSTITUTE OF TECHNOLOGY

BACHELOR OF COMPUTER ENGINEERING | 2020 – 2025

- Dual-Degree Program: Studying a comprehensive curriculum from both Pharos University (Egypt) and KTH Royal Institute of Technology (Sweden).
- Key Focus Areas: Software Engineering, Distributed Systems, Network Security, and Cloud Computing.

Certifications

- CCNAv7: Enterprise Networking, Security, and Automation – Cisco Networking Academy (2023)
- CCNA: Switching, Routing, and Wireless Essentials – Cisco Networking Academy (2023)
- CCNA: Introduction to Networks – Cisco Networking Academy (2022)

LANGUAGES

Arabic: Native

English: Fluent