

Shaza Ali

Software Engineer | Backend & AI Specialist

<https://shazaali.substack.com/>

<https://portfoliogoreact.vercel.app/>

<https://github.com/shazaaly/shazaly.github.io>About

I am a Software Engineer working at the intersection of Generative AI and Domain-Driven Design (DDD). My current focus is on building modular, domain-aligned AI applications that leverage Retrieval-Augmented Generation (RAG) to deliver intelligent, context-aware user experiences.

I strongly believe that AI systems should not only generate content but also reflect a deep understanding of business domains. That's why I apply DDD principles—strategic modeling, bounded contexts, and ubiquitous language—to design maintainable and scalable GenAI backends.

What I build:

RAG pipelines with LangChain, Qdrant, and Hugging Face models.

Domain-aligned backend services with NestJS + Prisma (following DDD layers).

Lightweight fine-tuning for LLMs on domain-specific data.

I'm passionate about bridging clean architecture with cutting-edge LLM capabilities to solve real-world problems in structured, maintainable ways.

Technical Skills

Backend: NestJS, GraphQL, Python, PostgreSQL, Node.js, Express.js, Prisma

AI & RAG: Retrieval-Augmented Generation (RAG), LangChain, Qdrant, GPT, Copilot, Cursor

Languages: TypeScript, JavaScript, Python, C

Web: HTML5, Cascading Style Sheets (CSS)

Core Concepts: Scalable Systems, Clean Architecture, Domain-Driven Design (DDD), Object-Oriented Programming (OOP), Data Structures, Database Design, Test-Driven Development (TDD)

Tools: GNU/Linux

Experience

Software Engineer (Contract)

Suplyd | Cairo, Egypt

May 2024 - Present

Technical Content Writer (Self-employed)

Substack | Cairo, Egypt

Mar 2023 - Aug 2025

Authoring a tech blog inspired by the ALXSE program, providing a comprehensive framework for problem-solving and learning programming concepts. The blog emphasizes critical thinking, reading and understanding before coding, and effectively utilizing resources.

Fullstack Javascript Instructor (Contract)

GOMYCODE | Cairo, Egypt

Sep 2022 - Aug 2023 (1 year)

Inspired students to learn today's in-demand technical and soft skills.

Coached students to independently find solutions to their problems.

Guided students in their learning path, encouraging them to learn by making.

Evaluated assignments and held simulated job interviews.

Recorded video courses to optimize the students' learning experience.

Technical Support Web Developer (Full-time)

Salla E-Commerce Platform

Apr 2021 - Sep 2021 (6 months)

Education

African Leadership Experience (ALX)

Apprenticeship, Fullstack Software Engineering | Feb 2023 - Apr 2024

Completed an extensive curriculum covering C, Python, JavaScript, data structures, algorithms, web development, system engineering, and DevOps.

Gained practical experience through numerous hands-on projects.

FGSSR - Faculty of Graduate Studies for Statistical Research at Cairo University

Professional Diploma, Computer Software Engineering | 2018 - 2019

Licenses & Certifications (Selected)

EF SET English Certificate 65/100 (C1 Advanced) | EF SET (Issued Jul 2024)

Advanced React | Coursera (Issued Dec 2022)

Programming with JavaScript | Coursera

Java Object-Oriented Programming

Software Testing Certificate

(Profile lists a total of 17 certifications)

Projects

NodeJS-Ecommerce APP

Mar 2024 - Present

Skills: Node.js, Express.js

React Resume

Dec 2022 - Present | Associated with GOMYCODE

Languages

Arabic: Native or Bilingual Proficiency

English: Full Professional Proficiency (IELTS Score: 7.0)

Recommendations

Demiso Daba (Studied together at ALX-Africa)

"I had the pleasure of studying alongside Shaza... it was evident that Shaza possessed a rare combination of intelligence, dedication, and passion for software engineering. Her ability to grasp complex concepts quickly and apply them effectively in real-world scenarios was truly impressive. Moreover, Shaza's strong work ethic and collaborative nature made her a valuable team member."

Ibrahim Desouky (Managed Shaza directly)

"Shaza's technical proficiency is truly remarkable, she has a knack for problem-solving always approaches challenges with a strategic mindset, and consistently delivers high-quality results... I strongly recommend her!"