

Issa Al Halabi

Senior Software Engineer | Backend, Cloud & Distributed Systems

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Summary

Senior Software Engineer **with 7+ years of experience** building scalable backend systems, **microservices**, **cloud-native systems**, and **IoT-enabled platforms** across fintech, AI, EdTech, and Web3 industries. Expertise in **Node.js**, **TypeScript**, **Python**, **React**, **AWS**, **Docker**, **Kubernetes**, **distributed systems**, **observability**, and **distributed tracing**. Proven track record of designing **high-performance backend architectures**, leading engineering initiatives, and delivering reliable products at scale with a strong focus on **scalability**, **performance**, **security**, **API design**, and **DevOps automation**.

Core Competencies

Backend Development · Full-Stack Development · **Microservices**

Node.js · **TypeScript** · Python

React · Next.js · **API Design**

AWS · Cloud Infrastructure · Serverless

Docker · Kubernetes · **CI/CD**

PostgreSQL · MongoDB · Redis

System Design · Distributed Systems · Distributed Tracing

Observability · Monitoring · Performance Optimization

Generative AI · LLM Systems · **Team Leadership**

Experience

Senior Software Engineer (On-site), Confidential Jan 2026 – Present | Dammam, KSA

- **Architected** a scalable **e-commerce platform** with Admin Dashboard, Website Builder, and Storefront.
- **Engineered** a **microservices architecture** using Docker, CI/CD, and centralized logging.
- **Integrated IoT devices** and real-time communication workflows for system automation.
- **Spearheaded Claude AI** adoption, improving engineering productivity and delivery efficiency.
- **Implemented observability** and monitoring with AWS EKS and Grafana.
- **Orchestrated** an **AWS cloud migration** with minimal deployment disruption.
- **Optimized** backend services through query tuning, security enhancements, and **code refactoring**.
- **Enabled** secure transactions through **payment gateways**, delivery providers, and open banking APIs.

Senior Software Engineer (Remote, 1 yr 3 mos), Polytrade Sep 2024 – Nov 2025 | Dubai, UAE

- **Engineered** scalable **NestJS microservices** for a **RWA marketplace** on AWS.
- **Built Web3 blockchain workers** using Alchemy and SimpleHash.
- **Implemented serverless pipelines** using SSE, AWS Lambda, and Step Functions.
- **Reduced Docker image size** by 90% and **CI/CD runtimes** by 50%.
- **Orchestrated** an **AWS account migration** with seamless deployment transitions.

Senior Software Engineer (Remote, 1 yr 8 mos), Drive Terra Jan 2023 – Aug 2024 | Dubai, UAE

- **Led** a team of 5 developers delivering scalable **React** and **Node.js applications**.
- **Delivered MERN applications** focused on scalability and performance.
- **Architected** backend systems using **APISIX Gateway** and **Keycloak authentication**.
- **Integrated IoT devices** and **Raspberry Pi systems** using Socket.io and RabbitMQ.
- **Implemented payment** and **subscription services** with Stripe integration.
- **Automated** deployments using **Docker**, **Nginx**, **CI/CD**, and DigitalOcean.

Software Engineer (Hybrid, 1 yr 10 mos), *Eurisko Mobility* Feb 2021 – Nov 2022 | Adma, Lebanon

- **Developed Node.js microservices** for car tracking, e-commerce, and e-learning platforms.
- **Migrated** SQL databases to MongoDB, **boosting performance by 40%**.
- **Launched a banking application** integrating 5+ payment gateways and **Teltonika IoT devices**.
- **Mentored** junior engineers through technical workshops and engineering standards adoption.

Full Stack Developer (Remote, 2 yr), *Imperium Code* Jan 2019 – Dec 2020 | Beirut, Lebanon

- **Created** 10+ responsive **web applications** with custom themes and RESTful APIs.
- **Built full-stack platforms** using PHP, Bootstrap, MySQL, and JavaScript.
- **Delivered a compensation management portal** with secure database integration.
- **Designed** reusable **UI components** focused on accessibility and user experience.
- **Collaborated** with stakeholders to produce **UML diagrams** and system designs.
- **Enhanced** cross-browser compatibility and frontend performance.
- **Supported** backend APIs, database design, and deployment workflows.

Skills

Languages & Frameworks: Node.js, TypeScript, Python, React, Next.js, NestJS, Flask, FastAPI, GraphQL.
Architecture: Microservices, Distributed Systems, Event-Driven Systems, Socket.io, SSE, Kafka, RabbitMQ.
Databases: PostgreSQL, MongoDB, Redis, DynamoDB, Prisma, Mongoose.
Cloud & DevOps: AWS, Docker, Kubernetes, CI/CD, Nginx, GitHub Actions, Grafana.
Observability: Grafana, Distributed Tracing, Logging, Performance Monitoring.
AI & Automation: Claude AI, OpenAI APIs, LangChain, CrewAI, Redis Queues.
Web3 & Blockchain: Solidity, ethers.js, Hardhat, ERC20, ERC721, ERC1155, Alchemy.
Security & Testing: Keycloak, JWT, Access Control, Jest.
Integrations & Workflow: Stripe, Agile, Scrum, Git.

Education

MSc in Software Engineering, *Faculty of Sciences* 2019 – 2021 | Tripoli, Lebanon

B.A. in Computer Science, *Faculty of Sciences* 2016 – 2019 | Tripoli, Lebanon

Courses

Claude Code – The Practical Guide, *Academind* Mar 2026 – Mar 2026 | Online
Completed practical training in **Claude Code, AI-assisted development, and prompt engineering**. Covered code generation, debugging, refactoring, automation, and developer productivity workflows.

Solidity Bootcamp (Remote), *Encode Club* Mar 2024 – May 2024 | London, UK
Completed 8-week program on smart contracts using **Solidity, Hardhat, ethers.js**, and core **blockchain** concepts. **Certificate #11269 - Encode Club | OpenSea** [🔗](#)

Projects

Personality Plus AI App, (*Claude-assisted development*)

- **Built** an **AI personality platform** with Supabase and bilingual support.
- **Translated** personality frameworks into adaptive AI-driven assessment workflows.
- **Leveraged** Claude Design and Claude Code to accelerate full-stack development.

LLM Campaign Manager (CrewAI, APIs)

- **Created** an **LLM campaign manager** using CrewAI, OpenAI, Twitter, Telegram, and finance APIs.
- **Automated** multi-agent workflows for content generation and campaign execution.
- **Integrated** Yahoo Finance, CoinMarketCap, PostgreSQL, and Streamlit.

AI Video Processing Platform (Flask, AWS, FFmpeg)

- **Engineered** an **AI video processing platform** using Flask, AWS, FFmpeg, and MoviePy.
- **Streamlined** avatar composition, subtitle generation, and media rendering workflows.
- **Deployed** the platform on AWS EC2, S3, and EventBridge-triggered Lambda services.

Chatbot SQL Generator (LLM, Flask)

- **Developed** an **AI-powered SQL generator** using Flask, LangChain, and OpenAI APIs.
- **Orchestrated** natural-language-to-SQL workflows with secure access controls.

Web Performance & UX Enhancements

- **Enhanced** frontend performance by 30% using Akamai and ImageKit optimizations.
- **Implemented** BranchIO deep-linking, routing, and user-tracking solutions.
- **Reduced** latency through AWS Lambda adoption and workload offloading.

Languages

Arabic (Native) • **English** (Fluent)