Mohamad Shoumar

Backend Engineer

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Summary

Founding Engineer at a fast-paced startup, helping scale a production platform to **15,000** users. I leverage AI-native development practices, including multi-agent orchestration, AI-driven testing, and autonomous bug triage and resolution, to accelerate delivery without compromising reliability. I take ownership, drive initiatives, and approach engineering decisions from the client's perspective, focusing on solving real problems and delivering business value.

Professional Experience

CoinQuant, Abu Dhabi Sept 2025 - Present
Team Lead

- Architected an event-driven AWS Lambda and SQS backtesting system, scaling execution to **800+ concurrent jobs**. Implemented dead-letter queues, retry mechanisms, idempotent PostgreSQL result writes, and credit refunds to ensure reliable failure recovery.
- Own third-party API integrations end to end, including an event-driven Slack gateway that routes authenticated events, enforces scoped permissions, and reliably handles bot-to-bot messages in production.
- Built a comprehensive test suite across the testing pyramid, uncovering **40 bugs and edge cases** during implementation and catching regressions in subsequent PRs.
- Built and own an internal LLM automation flow that uses AI agents for extraction, classification, and triage, with validation gates that check every output before it ships - 115+ version-controlled workflows covering code review, release QA, and deploy gates.
- Lead a team of 3 engineers through sprint planning, code reviews, and a strict unit and integration testing culture.

CoinQuant, Abu Dhabi Aug 2024 - Aug 2025
Backend Developer

- Led the migration from Bazel to Poetry across 4 Python microservices, simplifying dependency management and reducing estimated dependency update and conflict-resolution effort by **~70%**.

CoinQuant, Abu Dhabi Jun 2023 - Jul 2024
Full Stack Developer

- Developed RESTful Python APIs for the backtesting platform, delivering market and simulation data to the frontend.

Projects

Job Hunter — GitHub

- Built an AI-powered job discovery platform that scans **10,000+** postings a day from 19 sources and narrows them to the top **10-20** matches, combining rule-based filtering with LLM eligibility checks.

Skills

Languages: Python, SQL, TypeScript, JavaScript

Frameworks: FastAPI, Django, Node.js, React, Next.js, React Native

Databases: PostgreSQL, MongoDB, Firebase

Tools & Platforms: AI coding agents, Claude Code, AWS (Lambda, SQS), Docker, Git, Datadog, Grafana, Testsprite

Concepts & Methodologies: event-driven architecture, message queues, serverless architecture, API design, system design, distributed systems, microservices, async programming, LLM/AI automation, agentic workflows, multi-agent orchestration, loop engineering, RAG, unit & integration testing, TDD, data integration, Agile/Scrum

Education

Software Engineering Factory, Full Stack Software Engineering Bootcamp Nov 2022 - May 2023

- Completed the boot camp as a Star Developer with a Full stack web app.

American University of Beirut, Psychology Sep 2018 - Jun 2021

Certifications

Software Engineering Factory, Applied AI Engineering Workshop Sep 2026

- Built a support agent with tool calling, RAG, structured outputs, evaluations, and human approval gates.

Zapier Academy, AI Builder Path Mar 2026

- Built multi-step Zaps with AI steps, webhooks, scheduling, and Zapier Tables to move data between business tools.