Amir Bou Ghanem

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Professional Summary

Software Engineer building AWS backends and LLM agent tooling in Java. Built a multi-tenant AWS architecture that cut tenant onboarding from 4+ hours to 30 minutes, sped up OTA data uploads 2.5x with Java concurrency, and automated release pipelines with Jenkins and Gradle. Core Organizer at Google Developer Groups Coast Lebanon, a 3,500-member developer community.

Work Experience

Cortexis Beirut, Lebanon
Software Engineer – Full-time August 2026 – Present

- Enable LLM agents to act on live production data by building 30+ Java tool-calling endpoints that pull fresh context directly from the persistence layer.
- Let the agentic backend drive the user interface directly by building 15+ reusable server-driven React components with composite, builder, and factory patterns.
- Caught 30+ defects before production through pre-release module testing and fix verification.
- Introduced semantic versioning across all product releases using Jenkins and Gradle.

Oreyeon Beirut, Lebanon
Backend Engineer – Part-time November 2025 – August 2026

- Delivered a web application for the Alzheimer's Association in Lebanon (Tech4Good), serving 50+ patients and 5+ staff members, by building an Express.js REST API on Supabase (PostgreSQL).
- Centralized Android app logs for analysis, handling 15,000+ logs across test environments, by building an ingestion pipeline into Amazon S3 via Kinesis Firehose.
- Cut Android SDK release time by 80%, from about 5 minutes to 1 minute, by automating SDK generation from AWS API Gateway in a CI pipeline.

Backend Engineer – Internship July 2025 – October 2025

- Cut tenant onboarding from 4+ hours to 30 minutes by consolidating 3 per-client deployments into one multi-tenant AWS architecture on Lambda, API Gateway, RDS, S3, and IAM.
- Sped up OTA data uploads 2.5x by parallelizing the pipeline with a Java ExecutorService thread pool and semaphore-gated concurrency, with retries and error handling to reduce failed uploads.

Two of Us L.L.C. Beirut, Lebanon
Full-Stack Web Developer – Internship July 2024 – September 2024

- Shipped Phonix, an 8+ page mobile-phone e-commerce frontend in React and Tailwind, by leading a team of 11 interns.
- Built LimitKeeper, an Express.js rate-limiting middleware that throttles abusive and brute-force traffic, implementing Sliding Window, Leaky Bucket, and Token Bucket algorithms.

Education

Lebanese University Hadath, Lebanon
Master of Science in Computer Science September 2025 – July 2026
Bachelor of Science in Computer Science September 2022 – July 2025

Skills

Programming Languages: Java, Python, SQL, JavaScript.
Frontend Frameworks & Libraries: Android Framework, React, Next.js, Tailwind.
Backend Frameworks & Libraries: Spring Boot, Node.js, Express.js.
Database Management Systems: PostgreSQL, MySQL, MongoDB, SQLite.
CI/CD: Jenkins, GitLab CI, GitHub Actions, Gradle, Maven.
Testing: JUnit, Vitest, Playwright.
Development Tools: AWS, Docker, Git, GitHub, GitLab, Postman, Jira, Linear.

AI Tools: Claude Code, Gemini CLI, OpenCode.
Soft Skills: Problem-solving, communication, collaboration, creativity, leadership, project management.
Languages: Arabic (native), English (fluent).

Certifications

AWS Certified Cloud Practitioner | AWS — February 2026
Fundamentals of Deep Learning | NVIDIA — April 2025
Google Cloud Computing Foundations | Google Cloud — April 2024

Volunteering

Google Developer Groups – Coast Lebanon — Beirut, Lebanon

Core Organizer — September 2025 – Present

- Co-organize DevFest, Build with AI, Google I/O Extended, and the Ramadan Event Series 2026 with an 8-person team for a 3,500-member community, with annual events drawing 1,500+ students and developers.
- Secure sponsors and partners including Murex and Speedlane by Aboard, and source speakers, F&B, and service providers for each event.
- Run social media, on-site coordination, and volunteer management, and represent the community on stage before large audiences.

Google Developer Groups on Campus – Lebanese University FS1 — Hadath, Lebanon

Lead Organizer — September 2024 – June 2025

- Led a 10-person core team running online and on-site tech events, including the flagship Build with AI and DevFair 1, and oversaw logistics, volunteer coordination, communications, and outreach.
- Organized DevFair 1, a career fair that brought together 15+ tech companies from across Lebanon and secured guaranteed summer internships for 10+ students.