

Faris Ashhab

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Full Stack Software Engineer

- **Full-Stack Web & Mobile Development:** Developed scalable web and mobile applications across AI, fintech, property tech, and music tech—serving millions of users through Node.js, React, Kotlin, and AWS.
- **AI Engineering & Backend Systems:** Built AI-powered chatbots and event-driven backends that cut infrastructure costs by up to 95%.
- **Collaborative Development:** Worked with clients and teams to translate business goals into performant, user-focused products.

Core Skills

Programming Languages: Python, Javascript, Typescript, Java, Kotlin, SQL, Bash

Frameworks & Tools: React, Next.js, Node.js, React Native, Android Studio, DialogflowCX, Twilio, Postman, Git, Express.js, Jest, Tailwind CSS

Cloud & Infrastructure: AWS (Lambda, EC2, S3, SNS/SQS, API Gateway, EventBridge), GCP (Cloud Functions, Firestore), Docker, Firebase

Databases: MongoDB, PostgreSQL, MySQL, SQLite, RoomDB, Redis

Concepts: Serverless, Event-Driven Systems, Microservices, REST, CI/CD, Mobile Architecture, Agile/Scrum, Prompt Engineering, OAuth

Professional Experience

Full Stack Software Engineer, Luma Financial - Contract, Remote

2025 – 2025

- Built a POS financing platform for U.S. dental and cosmetic clinics, enabling instant financing and automated payment workflows.
- Architected a Next.js + TypeScript frontend with Firebase Auth (email/password + SMS OTP) for secure, role-based access across admin, provider, and consumer portals, and deployed via Vercel for optimized scalability and CI/CD.
- Integrated Stripe Connect Express for provider onboarding and payouts, and Stripe Elements SDK for consumer payment methods—delivering a fully PCI-compliant payment experience.
- Developed a serverless backend (AWS Lambda, MongoDB) with scheduled cron jobs for recurring payments, retry mechanisms, role enforcement via Firebase Admin SDK, and automated email/SMS notifications using SES and Twilio.
- Designed modular, responsive UIs with Tailwind CSS, dynamic QR-code generators for provider application links, reCAPTCHA safeguards for login security, and a modern fintech aesthetic focused on clarity and conversion.

AI Model Trainer - Coding & Software Evaluation, Contract, Remote

2024 – Present

- Assessed AI-generated code for correctness, efficiency, and language best practices in Python, JavaScript, and TypeScript.
- Designed high-quality coding prompts and reference implementations to improve model performance.
- Identified and explained logic errors in model outputs to enhance debugging and reasoning capabilities of LLM's.

Software Engineer Intern, STAN AI - Toronto, ON

2022 – 2024

- Built and maintained an event-driven SMS chatbot platform serving 2.5M+ North American households (50k+ daily interactions) using Node.js, Twilio, DialogflowCX, GPT, and AWS Lambda.
- Co-led backend migration from AWS EC2 to a serverless architecture with AWS Lambda, cutting hosting costs by over 95%.
- Engineered a custom OCR API with AWS Textract and SNS, reducing third-party OCR costs by 85%, and integrated chatbot workflows with top North American property management systems via webhook and API integrations.
- Developed tailored Airbnb property management chatbots with real-time webhook support using Airbnb's API.
- Built DialogflowCX agents for multi-step chatbot flows and automated reporting with AWS cron jobs, reducing manual reporting by 80%.

Personal Projects

EDMWrapped — YouTube DJ Set Wrapped · Next.js, Tailwind, Web Workers, JSZip, AWS Lambda, MongoDB

2025 – 2025

- Built a privacy-first web app that processes YouTube Takeout watch history entirely in-browser to generate a personalized year-in-review of the user's electronic music and DJ sets - deployed via Vercel.
- Designed a heuristic scoring engine to classify and filter YT watch-history for identifying DJ sets using keyword and pattern matching.
- Implemented Web Worker-based parsing for large JSON archives (~50k+ entries) with progress feedback and local session storage.
- Added a lightweight AWS Lambda + MongoDB backend for anonymous analytics and feature logging.

RaveMate Music Discovery App · Kotlin, Shazam API, Spotify API, AWS Lambda, MongoDB

2024 – 2025

- Built an Android app that listens to live DJ sets, detects tracks using Shazam API, and auto-generates Spotify playlists in real time.
- Engineered a serverless backend on AWS Lambda to handle song recognition, audio processing, matching, and playlist syncing.
- Added MongoDB Atlas Search—powered fuzzy typeahead allowing tracklists search by title, with filtering by creator and other metadata.
- Designed a clean and responsive UI in Android Studio with smooth event-based playlist archiving, searching, and account management

BeReal-Inspired Music Social App · React, Ionic, Spotify API, Firebase, AWS Lambda/Cron Jobs, MongoDB

2023 – 2024

- Built a cross-platform social app; users' most recently played Spotify song is automatically posted to a feed at a randomized time daily.
- Orchestrated daily random-time triggers using AWS cron jobs to fetch user data via Spotify API and update the social feed in real time.

Education

Western University – London, ON, Canada

2019 – 2024

B.E.Sc. in Software Engineering