Hassan Hajarat

Backend Lead, TrackHawk GPS | CTO, Mektona | Founder, Ba9i (2021–2024)

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Profile

Backend lead and CTO. Five years in real-time IoT; the last year building with AI agents at the centre of how I work. I design the system and make the calls, then direct AI agents that build, test and ship it with me.

4,585 commits shipped in the last 12 months, across 16 repositories

5 years building GPS and IoT systems, since founding Ba9i in 2021

1,167 commits in three months on a new AI product, every one of them mine, with my agents

Experience

Backend Lead, TrackHawk GPS

Jun 2024 – Present, Remote (US company)

Lead the backend of a real-time fleet tracking platform built in-house to replace a licensed vendor product.

- Own the backend end to end: real-time device telemetry, live tracking, alerts and remote device control for B2B fleets.
- Led the move of existing customers off the licensed platform and onto ours.
- Brought AI agents into the team's daily engineering, from bug reproduction to review.

Stack: TypeScript, Node.js, Event streaming, MQTT, AWS, Flutter, React

CTO, Mektona

Jun 2026 – Present, Amman

CTO of an early-stage company building AI products for architecture, engineering and construction.

- Took the first product from prototype to production in three months.
- Own the technology: architecture, security, infrastructure and QA.
- Run engineering as one person directing agent fleets, with every change backed by tests and evidence.

Stack: TypeScript, Next.js, Generative AI, Postgres, Cloud infra

Founder & General Manager, Ba9i (Smart Bus LLC)

Dec 2021 – Aug 2024, Amman

Founded a school-bus tracking SaaS for private schools in Amman: GPS trackers on the buses, live maps for parents, reports for schools.

- Sole technical founder: chose the tracker hardware, took it through telecom type approval, and built the apps.
- Grants from the Jordan River Foundation and TTi Jordan; incubated by German Jordanian University.

Stack: React Native, GraphQL, AWS IoT Core, Teltonika

Software Engineering Intern, IPSI

Jul 2019 – Sep 2019, Sydney

Built a 500+ scenario test suite for a payment-gateway sandbox API; the bugs it found were fixed before release.

Education

Bachelor of Engineering (Honours), Software, The University of Sydney

2016 – 2019

Thesis in object detection and recognition. Distinctions in Data Structures, OO Frameworks, Internet Software Platforms and Software Development Project. Graduate course in Machine Learning and Data Mining.

Skills and languages

AI-native engineering	Claude Code, multi-agent orchestration, spec-driven development, agent QA fleets, TDD
Real-time & IoT	Kafka, MQTT, WebSockets, Redis, AWS IoT Core, GPS trackers
Product engineering	TypeScript, Node.js, Next.js, React, React Native, Flutter, Postgres, MySQL, GraphQL
Infra	AWS, Terraform, Vercel, Cloudflare, Grafana / Prometheus
Languages	Arabic (native), English (IELTS 8.0)