Muhammad Hamad

Senior Full-Stack Engineer · TypeScript & Python · Production LLM Features

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SUMMARY

Full-stack engineer with 8 years shipping production web products for startups in the USA, Germany and the Middle East. Strongest in TypeScript (Next.js, NestJS) and Python (FastAPI), with PostgreSQL behind both. Currently building LLM features that hold up in production: structured output, validation against real data, fallbacks and cost controls. Comfortable owning a feature from database to UI and working directly with founders.

EXPERIENCE

Nuvita — Full-Stack Engineer (Python · LLM) Apr 2026 – Present

AI nutrition app: meal photos and barcodes turned into verified macros, with LLM coaching

- Built the product end to end on FastAPI, Next.js 14, Supabase (PostgreSQL) and Stripe.
- Built an LLM vision pipeline with strict JSON-schema output; every detected food is checked against USDA data before users see it.
- Designed a two-layer coaching engine: rules make the decisions, the LLM writes the message, with a safety filter and fallback on model failure.
- Cut repeat LLM calls with a 90-second cache and per-user usage limits tied to plan tier.
- Added a camera barcode scanner (OpenFoodFacts) so packaged food needs no manual entry.
- Shipped Stripe freemium billing with idempotent webhooks, and Fitbit sync over OAuth 2.0 with encrypted tokens.

FixFinanz (fixfinanz.de) — Senior Full-Stack Developer May 2025 – Mar 2026

CRM taking financial advisors in Germany from lead to signed contract

- Designed the NestJS backend as a modular monolith (auth, appointments, pipelines, contracts) with clear boundaries.
- Built role-based dashboards for customers, advisors and admins in Next.js, with guards matching API permissions.
- Built Meta lead ingestion with HMAC signature checks and idempotent processing for 1,000+ leads a month.
- Rebuilt booking as a state machine with slot rules, cutting scheduling conflicts by about 80%.
- Kept test coverage above 90% with Jest unit and end-to-end tests.

Bullseyes.ai — Full-Stack Developer (Contract) Oct 2024 – Jan 2025

AI lead-generation platform for marketing teams

- Built async Python services for campaign pipelines, cutting processing time by 35%.
- Added real-time updates with Socket.io across multi-tenant subdomains, supporting 200+ concurrent sessions.

OverZaki (overzaki.com) — Frontend Developer Dec 2023 – Sep 2024

Storefront builder for merchants across the Middle East

- Built the merchant dashboard in Next.js and TypeScript as a shared component library, with live theme preview over Socket.io.
- Led accessibility work that raised the Lighthouse accessibility score from 61 to 89; delivered the marketing site in 3 weeks.

FlySmartDeals (flysmartdeals.com) — Frontend Developer (Contract) Jun 2023 – Nov 2023

- Integrated the Duffel flight API with client-side caching, cutting search-to-results time by 30%; A/B tests on 4 UI flows lifted conversion by 15%.

G3MS (getg3ms.com) — Backend Developer (Contract) Feb 2023 – May 2023

- Built the Firebase backend syncing web and mobile apps in real time, plus 5+ third-party API integrations.

PoshTextiles (poshtextiles.com) — Full-Stack Developer Aug 2021 – Jan 2023

Warehouse and shipping platform for a US textile exporter

- Built the warehouse system for shipment creation, picking, packing and dispatch, handling 500+ shipments a month.
- Integrated FedEx, UPS and STAMP with address validation before label purchase, cutting manual shipping errors by 90%.
- Connected orders to Microsoft Dynamics Business Central and added Authorize.Net for inter-company payments.

Digital Media Flow LLC, New York (remote) — Full-Stack Developer Jun 2020 – Aug 2021

- Built React and Node.js web apps for 10+ clients, owning deliverables end to end within 6 months; managed Docker and Heroku deployments.

Earlier 2017 – 2019

X Logic Solutions — Senior React Developer (Jun 2018 – Sep 2019) · GamicaCloud — Frontend Developer (Jan 2017 – May 2018)

SKILLS

Languages	TypeScript, JavaScript, Python, SQL
Frontend	React, Next.js 14, Redux Toolkit, Tailwind CSS, Material UI
Backend	NestJS, Node.js, Express, FastAPI, Pydantic, REST APIs, webhooks, Socket.io, JWT / RBAC
Data	PostgreSQL, Supabase, Prisma, MongoDB, MySQL, Redis, Firebase
AI / LLM	OpenAI API (vision, structured output), Claude API, prompt engineering, LLM fallbacks and cost control
Integrations	Stripe, Authorize.Net, Meta Graph API, FedEx / UPS, OAuth 2.0
Tooling	Docker, Jest, GitHub, Vercel, Heroku

EDUCATION & RECOGNITION

B.S. Computer Science Engineering — GC University, Pakistan (2015 – 2019)
Winner, Programmer Competition 2019 — appreciation letter from the President of Pakistan

References available on request.