OMER BIN HABIB

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EXPERIENCE

Independent Consultant Jan 2026 – Present

Remote · Karachi · Backend engineer for UK SaaS clients, plus client work in Denmark and Pakistan

- Built a Python **FastAPI** service to run alongside Spot (UK workplace wellbeing SaaS): PII redaction with spaCy NER and language detection, outlier scoring with an Isolation Forest, and sentiment gating with sentence embeddings.
- **Spot** backend: NestJS and TypeScript, Stripe Connect tiered billing, data handling built for GDPR (hard delete, anonymisation, export). 357 automated tests, 18 migrations. Deployed on Render, not launched to users.
- **AgencyView** (reporting platform for a UK SaaS founder): a deterministic PostgreSQL report engine, 13 report types filtered by user role, with no LLM calls in the engine path. An LLM narration layer on top runs on the user's own API key.
- Reliability practice: idempotent writes, retry with backoff on external calls, work moved onto queues instead of the request path.

Software Engineer May 2023 – Dec 2025

Blocship · Karachi · Nine products; technically the only backend engineer, in a team of Flutter and frontend developers plus QA

- **Loyalty points system** for a vehicle-parts distributor (NestJS): issuance, redemption and transfer with transactional balance changes; built the points reporting the distributor used to pay back its buyers.
- **MaidMe** (Norway): added a separate NestJS socket server beside the live Laravel backend for real-time booking management and in-app support chat.
- **Groops**: backend through Lumen, Laravel and NestJS on Clean Architecture: 16 modules, 73 migrations, 81 entities, 472 test suites.
- Across all nine products: REST APIs with Swagger, JWT auth, input validation, MySQL and PostgreSQL migrations, code review, production support.

Software Engineer Apr 2021 – May 2023

Sybrid (Pvt) Ltd, a Lakson Group company · Karachi

- **FiTE** hiring portal for Japanese companies (Laravel, bilingual English/Japanese): role-based access across four user groups plus admin; owned the candidate-hiring workflow and built the admin panel.
- MySQL stored procedures with window functions to calculate a candidate profile score server-side.

Associate Developer Sep 2020 – Apr 2021

TAFSOL Technologies · Karachi

- Built the e-store and admin panel of Athletes Guide (Laravel) and an internal timesheet app. Employee of the Month, October 2020.

PROJECTS

ALLDost Personal product

- My own fitness and calorie app, about five friends-and-family users. Next.js and Supabase (Postgres, row-level security); Gemini turns natural-language meal and workout logs into records, with Zod-validated output and model-supplied values checked against a fixed set.
- Evaluation and review layer: every AI-generated food entry is held as unverified until a reviewer approves or corrects it, on a purpose-built review screen with its own access rules, covered by Playwright tests.

AI-assisted development setup Personal

- I work in Claude Code with project-scoped skills, sub-agents, slash commands, a PreToolUse hook, a tree-sitter code graph and a RULES.md the sessions are held to (no unverified numbers, reproduce before fixing, schema truth from migrations).

PAI build harness and Resume Tailor Personal

- Multi-agent harness (orchestrator, specialist and critic agents) on LangGraph, traced in Langfuse. Used it to build Resume Tailor, a truth-gated resume generator (public repo).

SKILLS

AI / LLM: Claude, OpenAI and Gemini APIs; tiered model routing; Zod structured output; closed-set validation of model values; PII redaction before external calls; evaluation-gated model changes; prompt caching; pgvector hybrid semantic and keyword retrieval; LangGraph; Langfuse; tool-use loops with a grounding rule

Python: FastAPI, spaCy, scikit-learn, sentence-transformers, Pandas, Matplotlib

Backend: Node.js, TypeScript, NestJS, PostgreSQL, MySQL, REST, BullMQ and Redis, Docker, GitHub Actions, Playwright, Jest

EDUCATION & CERTIFICATIONS

MSBA: Karachi School of Business & Leadership · 2025 – 2026 (final semester, graduating Dec 2026); courses include Machine Learning and Generative AI

BSc Computer Science: SZABIST, Karachi · 2016 – 2020

Certifications: Generative AI with Large Language Models (DeepLearning.AI with AWS) · Microsoft Power BI