OMER BIN HABIB

Karachi, Pakistan (Remote) · omer.habib62@gmail.com · +92-312-2410991
linkedin.com/in/omer-bin-habib · github.com/omerhabib62 · omerhabib62.github.io

EXPERIENCE

Independent Consultant Jan 2026 – Present

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

- **Spot** (UK B2B workplace wellbeing SaaS): NestJS and TypeScript backend with Stripe Connect tiered subscription billing, timezone-aware processing and GDPR-ready data handling (hard delete, anonymisation, export). 357 automated tests, 18 database migrations. Deployed on Render, not launched to users.
- Traced Spot's rising hosting cost to queue settings, an uptime check waking the database every minute and overlapping scheduled jobs, and fixed each at its source instead of upgrading the plan.
- Built a Python FastAPI service to run alongside Spot: PII redaction with spaCy, outlier scoring with an Isolation Forest, and sentiment gating with sentence embeddings.
- **AgencyView** (reporting platform for a UK SaaS founder): PostgreSQL-driven engine with 13 report types filtered by user role; ingestion as a scheduled pipeline with bounded concurrency, retries and structured logging.
- Reliability practice throughout: idempotent writes so a repeated job never duplicates data, retry with backoff on external calls, work moved onto queues.

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): point issuance, redemption and transfer with balance changes written transactionally, so a failed transfer could not leave value in two places. Built the points reporting the distributor used to pay back its buyers by the boxes they had bought.
- **MaidMe** (home-services marketplace, Norway): the live Laravel backend could not hold socket connections, so I added a separate NestJS socket server beside it for real-time booking management and in-app support chat.
- **Groops** (platform for organisations): did the backend as it moved from Lumen to Laravel to NestJS, on Clean Architecture: 16 modules, 73 migrations, 81 entities, 472 test suites.
- **Disgo** (streaming rooms and social platform): built the Express and MongoDB backend on my own. It ran on a staging environment for a client demo.
- Across all nine products (Laravel and NestJS): REST APIs documented with Swagger, JWT auth, input validation, MySQL and PostgreSQL modelling and migrations, code review, production support.

Software Engineer Apr 2021 – May 2023

Sybrid (Pvt) Ltd, a Lakson Group company · Karachi · Open Source team; enterprise web apps for Japanese and Pakistani clients

- **FiTE**, IT engineer hiring portal for Japanese companies (Laravel, bilingual English/Japanese): role-based access across four user groups plus admin, security aligned to OWASP guidance. Owned the candidate-hiring workflow, built the admin panel, released to AWS EC2.
- MySQL stored procedures with window functions to save candidate profiles and calculate a profile score server-side.
- Containerised a scheduled reminder-email job with Docker, Laravel behind nginx, for candidates who started but did not finish an application.
- Also: Colgate hiring-portal job-post data structure; fixed and built data reports on a Colgate CodeIgniter system; customised GrowCRM (Laravel) for Canvas Digital using the repository pattern.

Associate Developer Sep 2020 – Apr 2021

TAFSOL Technologies · Karachi

- **Athletes Guide** (sports agency platform, Laravel, Bootstrap): built the e-store and the rest of the platform, including the admin panel.
- Built a timesheet web app (Laravel) that replaced the Excel sheets staff used to log hours. Named 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 for natural-language meal and workout logging, with output validated by Zod; Playwright end-to-end tests.

Mercenary Starter API Open source

- Dockerised, modular NestJS starter for SaaS backends with access control, billing, security headers and API docs wired in. NestJS, PostgreSQL, Redis, Stripe, Docker, Swagger.

SKILLS

Backend: Node.js, TypeScript, NestJS, Express, REST and Swagger, JWT, BullMQ and Redis, WebSockets, idempotency, retry and backoff, transactional consistency
Databases: PostgreSQL, MySQL: schema design, indexing, views, migrations, stored procedures, window functions, row-level security
Also: PHP (Laravel, Lumen), Python (FastAPI), Docker, nginx, GitHub Actions, Render, AWS (Lambda, RDS, S3, EC2), Jest, Playwright, Git
AI / LLM: Claude, OpenAI and Gemini APIs, Zod-validated structured output, pgvector hybrid retrieval, LangGraph

EDUCATION

MSBA: Karachi School of Business & Leadership · 2025 – 2026 (final semester, graduating Dec 2026)
BSc Computer Science: SZABIST, Karachi · 2016 – 2020