

Christian Oulikian

Backend Engineer (Founder / CTO at COWebs.lb)

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PROFILE

Backend Engineer with 3+ years building production-grade systems across ERP, CRM, SaaS, and real-time platforms. Reduced authentication latency 14× in a multi-tenant ERP. Experienced in NestJS, PostgreSQL, CI/CD, and full-stack delivery from schema design to deployment.

TECHNICAL SKILLS

Languages	TypeScript · JavaScript · Python · Dart
Backend	Node.js · NestJS · Express · Django · FastAPI · REST · WebSockets · JWT · RBAC
Databases	PostgreSQL · SQLite · Redis · Supabase · Prisma ORM · Knex · Sequelize · SQLAlchemy
Frontend	React · Next.js · PyQt5/6 · PySide6 · Flutter · Android (Kotlin/Jetpack Compose)
DevOps & Infra	Docker · GitHub Actions CI/CD · Nginx · Render · Linux · npm Monorepo
AI & Integrations	OpenAI API · Anthropic API · Stripe · PayPal · Twilio · TF-IDF · TextRank

EXPERIENCE

Founder & CTO — COWebs.lb

Lebanon (Remote) · 2022 – Present

- Founded and operate a remote software studio serving international clients across CRM, SaaS, e-commerce, and POS domains; accepts USDT payments due to Lebanon banking constraints.
- Act as primary backend engineer across all client engagements while managing delivery, documentation, and junior mentorship.
- Co-founding CLTI (corporate language & translation interpretation platform) as technical owner: domain, backend, admin dashboard.
- Deliver full-lifecycle ownership — architecture design, schema migrations, deployment pipelines, and post-launch maintenance.

Freelance Full Stack Developer — Self-Employed

Lebanon · 2022 – Present

- Delivered client projects including Anush Badar (Next.js/Supabase bakery PWA with trilingual support, web push notifications, and baker assignment system) and AT Electronics (cloud budget management app).
- Produced layered documentation (technical, stakeholder, legal) before execution on every client engagement.

SELECTED PROJECTS

SPHINCS — Modular ERP/CRM Platform

NestJS · TypeScript · Prisma · PostgreSQL · React · npm Monorepo · GitHub Actions · Render

- Optimised authentication latency from 2,800 ms to 196 ms on a 107-table multi-tenant schema — a 14× improvement through query restructuring, indexing, and caching strategy.
- Architected modular NestJS backend with versioned API conventions, clear domain boundaries, and shared service contracts serving multiple frontend apps from a single core API.
- Built CI/CD pipelines via GitHub Actions + Render; resolved Prisma binary mismatches, caching conflicts, and environment drift in production.
- Designed RBAC + JWT auth system with unit and E2E test coverage for production reliability.

Agency Search Desk (ASD) — OSINT Desktop Research Tool

Python · PyQt5 · FastAPI · SQLite (WAL) · DuckDuckGo · TF-IDF · TextRank · Relationship Graphs

- Built end-to-end data pipeline: web scraping, deduplication via content hashing, structured SQLite storage, and extractive NLP summarisation (TF-IDF/TextRank).
- Thread-safe architecture separating all network I/O into background workers with rate-limit and retry logic; dark intelligence-terminal UI aesthetic.

Banking WebApp — Real-Time Trading Simulator

Node.js · Express · TypeScript · PostgreSQL (Knex) · Redis · Socket.io · Docker · React

- Developed real-time backend for order handling, portfolio updates, and live market event streaming via Socket.io channels.
- Redis-assisted low-latency session and state operations; containerised full stack with Docker for reproducible service orchestration.

AI Assistant Platform — Real-Time Search & Caching

Python · Async Architecture · PostgreSQL · Redis

- **95% cache hit rate**, reducing external API costs and improving latency by up to 90% via connection pooling.
- Security layer: XSS protection, CSRF validation, rate limiting, SQL injection prevention.

Target Shot POS — Bar & Restaurant Point of Sale

Python · PyQt6 · SQLite · Flutter · Dart · Android

- Dual-platform POS: desktop (PyQt6) and Android mobile (Flutter/Dart) with shared database structure.
- Table management, order processing, PDF receipt generation, and real-time analytics dashboard.

Charger — Custom Electron IDE (Final Year Project)

Electron · React · TypeScript · Monaco Editor · Tailwind CSS · Vite

- Built a cross-platform desktop IDE with Monaco Editor integration, file system operations, terminal, and split-panel layout.

AirMouse — MediaPipe Gesture Controller

Python · MediaPipe · OpenCV · PyAutoGUI

- Real-time hand gesture recognition controlling mouse cursor and click actions via webcam — no hardware peripherals required.

EDUCATION

Diploma in Information Technology (BT3 — In Progress, Final Year)

ETSTC · Lebanon · Expected 2026

Self-Directed Engineering Practice · 2021 – Present

92 repositories spanning ERP, CRM, POS, desktop apps, AI tooling, mobile, and DevOps