

AYMANE HROUCH

Casablanca, Morocco · aymane@hrouch.com · +212637478085 · aymane.hrouch.com

EXPERIENCE

Phi Partners

Quant Developer · RBC Capital Markets

Casablanca, Morocco
September 2025 – Present

- Built a corporate actions aggregation platform for the Delta One desk, consolidating multi-source market data with a dispute resolution layer to enforce accuracy across conflicting feeds
- Redesigned MongoDB schemas to eliminate in-memory processing, replacing bulk loads with direct queries and upserts — reducing memory overhead by ~80%
- Migrated Delta One desk scripts from isolated local execution to a centralized Prefect orchestration layer, enforcing structured monorepo standards across the team
- Executed a zero-downtime MSSQL to PostgreSQL migration for capital markets data pipelines, owning the full custom ETL end-to-end

Société Générale Index

Software Engineer

Casablanca, Morocco
February 2023 – July 2025

- Designed and delivered a production API replacing a manual Excel-based workflow, cutting daily processing time by ~70% across the index operations team
- Led zero-downtime infrastructure migrations across a distributed team of 60+ engineers and analysts spanning 3 countries
- Architected CI/CD pipelines covering 25+ quantitative Python libraries and 5 production APIs, reducing release cycles from weeks to hours
- Built an automated reconciliation engine for financial index data, eliminating 80% of manual validation across 3,500+ indices calculated daily
- Standardized engineering practices across 10+ developers by integrating automated linting, formatting, and pre-merge quality gates into all repositories

SKILLS

Languages: Python, JavaScript, TypeScript, Java, C
Frontend: React, React Native, Redux, Tailwind CSS
Backend: FastAPI, Node.js, Express, Spring Boot
Infrastructure: Docker, Kubernetes, GitHub Actions, Prefect, TeamCity
Databases: PostgreSQL, MongoDB, Redis, GraphQL
Spoken: English, French, Arabic

PROJECTS

WhatsApp Backup Reader *JavaScript, React, Node.js*

wbr.hrouch.com

Read, search, and explore WhatsApp chat backups in a clean web interface. Client-side only — no data leaves the machine.

OvThinker *React, Node.js, MongoDB*

ovthinker.netlify.app

Journaling app with time-locked entries (sealed until a chosen future date) and random past entry surfacing.

FocuSquad *Vue.js, Node.js, Socket.IO, Redis*

Collaborative Pomodoro timer with real-time sync via Socket.IO and Redis.

EDUCATION

National School of Applied Sciences

Engineer's Degree Software & Data Engineering

Khouribga, Morocco
September 2020 – June 2023