Sami Bentaleb

Full-stack developer
Open to full-time and contract roles, remote, from Annaba, Algeria (UTC+1).
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EXPERIENCE

Plastic Plus Contractor, systems and internal tools · Toronto, remote 2026

- An optical lab's operations dashboard had stopped updating. Grafana was fine; the import from the lab's report files into MariaDB had stopped. I traced it to jobs on a host I had no login for, and the lab's previous developer restarted them.
- Mapped a pipeline nobody had written down: Windows shares, CIFS mounts, bash loaders, MariaDB, Grafana and about 20 PHP email reports. Wrote the architecture note and report inventory for the lab's VP.
- Found why the redo and rework panels could not work: three import scripts expected 18 to 23 columns from an 11-column breakage file.
- Switched off the scheduled reports the lab no longer wanted, commenting them out rather than deleting them.
- Built a replacement operations board and handed it over: a React Router and SQLite app that reads the lab's report files directly and updates every open screen within seconds.

SmartSig Freelance full-stack developer · remote 2024 to 2025

- Built the pipeline and API that turn a pharmacy's weekly prescription directions (SIGs) into structured records. After a first configuration pass, over 90% of incoming SIGs resolve without manual review.
- Built a preprocessor that reads Epic exports against Epic's own clinical dictionaries and sends unseen SIGs to a pharmacist review queue, with claim locks and an audit trail.
- Sole engineer, from API design and database schema to deployment. TypeScript, Next.js, tRPC, Prisma, Zod.

2SCL Freelance full-stack developer · remote and on-site 2025

- Designed the API and data model for a platform cities use to track 234 UN SDG indicators and compare their progress with other cities.
- Moved over 200 indicator formulas into a server-side calculation API on Cloudflare Workers.
- Built objectives, alerts, change history with rollback, and role-based team access. TypeScript, Next.js.

Praesidium International Full-stack developer · remote 2022 to 2023

- Sole engineer on M.A.R.E., a maritime security platform in production with years of technical debt. Shipped features, fixed critical bugs and refactored the riskiest modules.
- Agreed priorities directly with stakeholders and left the codebase documented for the next engineer.

PROJECTS

- **Hadrel** My own product, not launched yet. It plans a ship's voyage and shows how many miles and hours it spends in each listed war-risk or piracy zone, with the zone version behind every figure. Rust, PostGIS, TypeScript, MapLibre
- **Tetris Lab, lab.samibentaleb.com** Given a Tetris board and a known piece sequence, a beam search finds how to clear a target number of lines. The whole search runs as WebAssembly in the visitor's browser. Rust, WebAssembly, TypeScript
- **Dockmule** Month-end billing for small logistics warehouses: numbered, taxed invoices per brand client, with every charge traceable to the events and rate card behind it. Go, Postgres, htmx

More on the portfolio: Speeedy (in progress), Amcic, and an architect's portfolio with 3D models.

HOW I WORK

I write the specs and the tests. AI coding agents do much of the typing under them, and I review every change. On teams that work without AI, I work their way.

SKILLS

Languages	TypeScript, Rust, Go, Python, SQL, Bash
Back end	Node.js, PostgreSQL and PostGIS, MariaDB, SQLite, tRPC, Prisma, Zod, REST
Front end	React, React Router, Next.js, Astro, htmx, MapLibre, three.js
Ops	Linux, Docker, Cloudflare Workers, GitHub Actions, Grafana
Spoken	Arabic (native), English (C1), French (B2), German (A1)

EDUCATION

BSc Computer Science, Badji Mokhtar University, Annaba, 2025