

Osama Mohamed

AI-Driven Builder · Automation & Infrastructure

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SUMMARY

Second-year Computer Engineering student at UPB who builds production software with AI agents. Shipped an ERP that replaced a distributor's Excel workflow, now in production with 1,818 automated tests, built through an executor-auditor AI pipeline I designed. I also run my own Linux infrastructure and n8n automations, and designed a 35+ device company network.

EXPERIENCE

Freelance Software Builder — ERP for a dental-supplies distributor (Doha, Qatar) · Remote · Jun 2026 – Oct 2026

- **ERP replacing Excel** — invoicing, customer debts, inventory costing, purchasing, supplier accounts and 11 reports.
- **System architecture** — designed the data model and accounting rules; AI agents wrote the code under my direction.
- **AI development pipeline** — an executor agent, then an independent auditor that plants bugs to prove the tests catch them.
- **Production deployment** — Node.js, Express and SQLite on my own VPS; 1,818 tests and daily encrypted backups.
- **Inventory correction** — fixed a ~19.6M phantom stock value with a reversing entry instead of booking a fake loss.

Network & IT Setup — company office, 35+ devices

- **Network build** — MikroTik VLANs, QoS and a default-drop firewall; installed the hardware, cabling and Windows.
- **Training room** — a 12-seat in-house room for running courses over Zoom.
- **Remote access** — WireGuard VPN into the internal network for administration.
- **Monitoring & backups** — scheduled config backups and Telegram alerts with router logs on failures.
- **Internet failover** — automatic switch to a backup link on outage, with a Telegram notice.

PROJECTS

- **Self-hosted infrastructure ([objm.cloud](#))** — Ubuntu VPS with Docker, Nginx and TLS hosting all my projects.
- **Sudoku Duo ([sudoku.objm.cloud](#))** — real-time two-player Sudoku with co-op, race mode and chat.
- **n8n automations** — self-hosted workflows that watch things I used to check by hand and alert me on Telegram.
- **Prime Video RO dub finder** — a script that finds Romanian-dubbed titles on Prime Video Romania.

ACHIEVEMENTS

- **Bitdefender Programming Contest 2026, AI track** — built a heuristic C++ solver for a hex-grid resource-optimization problem, with my own local test harness.

SKILLS

Building with AI	Claude Code, Codex, Antigravity, Claude, ChatGPT, Gemini API; multi-agent executor/auditor workflows, prompt design
Languages	JavaScript (Node.js), Python, C, C++, Java, SQL, Bash, x86-64 NASM
Backend & data	Express, FastAPI, SQLite, REST APIs
Infrastructure	Linux, Docker, Nginx, PM2, n8n
Networking	MikroTik RouterOS, VLANs, WireGuard, QoS, firewalls

EDUCATION & LANGUAGES

B.Sc. Computer Science and Information Technology (CTI) · Faculty of Automatic Control and Computers, National University of Science and Technology POLITEHNICA Bucharest · 2025 – present (2nd year)

Self-study (in progress): AWS certification track · McKinsey Forward

Languages: Arabic — native (5/5) · English — 4/5 · Romanian — 3/5