

Majd Suliman

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PROFILE

Software engineer with 4 years building and operating production systems end to end — React/Next.js and TypeScript on the front, FastAPI, Python and PostgreSQL on the back, Docker and AWS in the cloud. Core developer on a cloud-native EV charger management platform serving a distributed fleet of field devices over real-time OCPP WebSocket connections, with hands-on work down to the embedded Linux devices and firmware the software runs on.

EMPLOYMENT HISTORY

Software Engineer — Euroloop sp. z o.o.

Jun 2023 – Present · Kraków, Poland

Core developer on Hawke, a cloud-native EV charger management platform providing real-time monitoring, remote diagnostics and operational control across a distributed fleet of field devices.

- Develop and maintain the platform across the full stack — Next.js/React/TypeScript frontend, FastAPI/Python/PostgreSQL/SQLAlchemy/Redis backend — serving real-time status, metering and fault streams over persistent OCPP WebSocket connections from ~150 field devices across ~21 sites.
- Diagnosed a read replica pinned at 99% CPU: eliminated 8.2M full-table scans with 10 targeted indexes selected from measured scan pressure (pg_stat_statements), cutting the hottest query from 87ms across 6 parallel workers to 1.9ms on one (~70x) and Grafana panels from 333ms to 15ms with identical results; shipped via Alembic migrations executed without data loss.
- Traced database connection pressure to unbounded pooling in a monitoring service — ~5,000 new connections/hour against a 100-connection limit, ~9% of a CPU core spent on setup — and replaced it with a bounded pool: 16x fewer new connections, setup CPU under 1%.
- Built centralised logging, Grafana dashboards and transaction-recovery tooling supporting >99% device uptime and >94% session success across 1.1 GWh delivered.
- Architected and shipped an MCP server exposing fleet, session, telemetry and payment data to LLM clients, plus an in-app AI assistant and external MCP client support — with observability, rate limiting and safety guardrails.
- Built a Manifest V3 Chrome extension providing audit tooling the vendor's own API did not expose: intercepts internal Notion API traffic across the full webRequest lifecycle, decodes raw request bodies to detect page delete and restore operations, and reports them to a Node.js service.
- Designed and extended REST API contracts (FastAPI/OpenAPI) consumed by both the operator web frontend and embedded charger clients, keeping integration stable and backward-compatible across independently released systems.
- Implemented payment, invoicing and regulatory e-invoicing compliance flows for a multi-country network — contactless and incremental pre-authorisation, tax-ID validation against public government APIs, foreign-invoice handling, and order/refund endpoints with QR receipts.
- Developed internal warehouse and procurement platforms in a Turborepo monorepo (Next.js, React, Node.js, Redis, BullMQ) supporting manufacturing, delivery logistics, inventory control, resource scheduling, bill-of-materials cost breakdowns and work-order flows.
- Delivered on-device charger UIs in Flutter and integrated a new embedded Linux (Yocto) MCU platform; built a hardware-in-the-loop test harness reproducing real device traffic, enabling full-stack integration testing without physical hardware.
- Automated build, test and deployment with Docker and GitLab CI/CD pipelines.

Software Developer — MetalMaker3D

Apr 2022 – Mar 2023 · Kraków, Poland

- Delivered a cross-platform full-stack application in Flutter, owning major parts of development, testing and release preparation.
- Built an industrial machine-operation interface in Python and GTK for controlling 3D-printing hardware in production environments.
- Optimised hardware-to-GUI communication for responsiveness and reliability during real-time machine operation.
- Supported code quality through code review, debugging and maintainable software patterns.

Intern — Alfamar Construction

Aug 2021 – Sep 2021 · Riyadh, Saudi Arabia

- Supported planning, procurement and quality-control workflows for large-scale construction projects.
- Used Primavera P6 for scheduling, resource planning and project coordination.

TECHNICAL SKILLS

Backend & APIs Python, FastAPI, SQLAlchemy, Alembic, Pydantic, Node.js, REST, OpenAPI, BullMQ

Databases & Caching PostgreSQL, MongoDB, Redis, Supabase, query optimisation, indexing

Frontend Next.js, React, TypeScript, JavaScript, Tailwind CSS, HTML, CSS

Cloud & DevOps Docker, AWS, GCP, DigitalOcean, GitLab CI/CD, Grafana, automated testing

Real-time & Systems OCPP, WebSockets, ZeroMQ, embedded Linux, Yocto, Bash, device integration

AI & Automation MCP (Model Context Protocol) servers, LLM integration, agent orchestration, AI coding assistants (Claude Code)

Application Development Flutter, Dart, Python, GTK, PyQt5

Developer Tooling Nx and Turborepo monorepos, custom Nx generators, Chrome extensions (Manifest V3), CLI tooling, Git, GitHub, GitLab

EDUCATION

M.Eng. Automation & Robotics — Cyber-Physical Systems

AGH University of Science and Technology · 2022 – 2023

B.Eng. Mechatronics Engineering

AGH University of Science and Technology · 2018 – 2022

LANGUAGES

English — Fluent **Arabic** — Native/Bilingual **Polish** — Basic