

MAKSYM SKURIATIN

Full-Stack / Backend Software Engineer

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ABOUT ME

I entered software engineering driven by a passion for understanding how complex systems operate “behind the scenes” — from microservices architecture to the smallest UI/UX details. I have a healthy sense of perfectionism and professional engineer biases: I spot hidden interface bugs where others miss them, always seeking ways to improve user experience. I thrive under tight technical constraints, viewing them as an intellectual challenge akin to a game of chess. In my workflow, I strictly prioritize tasks by importance, giving absolute precedence to critical business processes and deadlines, much like an OS scheduler. Highly punctual regarding technical documentation and critical team commitments.

TECHNICAL MATRIX & COMPETENCIES

Languages & Backend: Python, FastAPI, asyncio, Java, Spring Boot, SQL, Pydantic, SQLAlchemy, REST

Frontend Development: JavaScript, TypeScript, React.js, Vite, Tailwind CSS, HTML5/CSS3

Cloud & DevOps: Docker, AWS (EC2, EKS, VPC), Kubernetes, Terraform, Railway, Git, GitHub Pipelines

Databases & Data: PostgreSQL, ChromaDB, Vector Databases, Time-Series Data, MQTT, Modbus TCP

Professional Soft Skills: Technical empathy, deadline management, asynchronous communication, technical writing

EXPERIENCE

Software & Systems Engineer (Hardware Diagnostics & Integration)

Mar 2022 – Jan 2024

Freelance / Contract

Kyiv, Ukraine

Managed the full cycle of low-level diagnostics, component repair, and optimization of computer systems and production equipment. Analyzed system logs, resolved firmware and driver-level conflicts, and developed custom bash/python integration scripts for Linux environments (Fedora, Arch). Utilizing Root-Cause Analysis methodologies and test automation, successfully reduced complex system troubleshooting time by 40%, ensuring uninterrupted operations of clients' critical infrastructure.

PROJECTS

MS Hardware Store | [GitHub](#) | [Live](#)

Architected and delivered a B2B e-commerce platform using a decoupled microservices approach. Designed relational PostgreSQL models and optimized client-side state management. Focused heavily on minimizing user friction by implementing seamless JWT-based Clerk authentication and deploying applications within isolated Docker containers on cloud instances.

FastAPI, React, PostgreSQL, Docker, Microservices, Clerk, REST APIs

Engineering RAG Copilot | [GitHub](#)

Designed an AI-powered document analysis system featuring a custom-built semantic search backend. Implemented multi-tenant data isolation patterns inside ChromaDB vector storage. Developed a dynamic, state-driven React SPA to handle multi-threaded document parsing, deploying the complete cloud infrastructure on AWS via Terraform.

FastAPI, React, Python, ChromaDB, AWS (VPC, EC2, EKS), Terraform, Docker

Industrial Telemetry Pipeline | [GitHub](#)

Developed a high-throughput, event-driven data pipeline to ingest real-time machine telemetry using Python's asyncio and MQTT. Built adaptive token-bucket rate limiting, structured application logging, and complex SQL schema definitions to isolate and validate incoming time-series streams without data drops.

Python, asyncio, PostgreSQL, MQTT, Docker, Structured Logging

AI HR Recruitment System | [GitHub](#)

Built an automated resume ranking backend leveraging semantic similarity scoring and vector operations. Created structured data validation contracts using Pydantic models to streamline RESTful interfaces for high concurrent query execution.

Python, FastAPI, Pydantic, PostgreSQL, REST Endpoints

EDUCATION

Academic Exchange Program <i>Universidad Politécnica de Cartagena (UPCT)</i>	Jan 2026 – Present <i>Cartagena, Spain</i>
Bachelor's in Industrial Engineering, Systems and Robotic Complexes <i>National University of Life and Environmental Sciences of Ukraine</i>	2024 – Present <i>Kyiv, Ukraine</i>

LANGUAGES

- Ukrainian** - Native
- English** - Professional Working Proficiency (B2)
- Spanish** - Basic Proficiency (A2)