

Serhii Ovsiienko

SOFTWARE ENGINEER | FINTECH & BACKEND SYSTEMS

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PROFILE

Software engineer with more than ten years across software development and quantitative finance, focused on **backend and data-intensive production systems**. Builds REST APIs, backend services and web applications in **Python, JavaScript and Rust** on top of **PostgreSQL, Redis and Docker**, plus the ETL and real-time pipelines that feed them. Most recently developed financial software in Switzerland, including infrastructure integrated with **IG Bank and Interactive Brokers**. Combines deep financial-domain knowledge — market data, trading systems, equities, derivatives — with hands-on machine-learning and LLM engineering experience.

PROFESSIONAL EXPERIENCE

Software Developer — Marbell AG

June 2024 – September 2026

Rotkreuz (Zug), Switzerland · marbell.com

Backend and software developer in the engineering team, working on software platforms, data-processing systems and AI-supported applications.

- Developed **backend applications, REST APIs and services in Python and JavaScript**; contributed to the backend architecture of distributed systems
- Built **web applications, internal dashboards and data-visualisation solutions** for developers, data scientists and business users
- Developed and maintained **automated data-processing and ETL pipelines**, including processing, validation and analysis of large financial and market datasets
- Developed **quantitative analysis and research software for financial applications**, including backtesting infrastructure used to validate strategies before deployment
- Built **model infrastructure integrated with IG Bank and Interactive Brokers**, connecting predictive models to live brokerage execution
- Worked with **PostgreSQL, Redis and SQL**, including optimisation of database structures; containerised and deployed applications with **Docker**
- Optimised **performance, stability and maintainability** of existing production applications and engineered low-latency pipelines for real-time data
- Supported the development, training and evaluation of **machine-learning models**, and integrated **LLM / generative-AI technologies** into internal tools and engineering processes
- Worked closely with developers and data scientists; produced **technical documentation**

Position eliminated as part of an organisational restructuring — expressly unrelated to performance or conduct (confirmed in the employment reference).

Independent Developer — Financial Software

June 2023 – June 2024

Remote

- Extended **AI Price Patterns** into a production API service delivering pattern search, backtesting and real-time market signals through a single programmatic interface (Rust, Python, Nuxt, Docker)
- Built **Manus Pay**, an open-source, self-hosted payment and treasury service with a deterministic policy engine, API gateway and hardened key handling (Rust, Vue) · manuspay.xyz

Software Developer — Blockforce Capital Management, LLC

June 2022 – June 2023

United States · blockforcecapital.com

- Developed reinforcement-learning simulation and optimisation systems with custom training environments
- Built **interactive dashboards** for performance monitoring, backtesting and visualisation of results

Founder & Software Developer — AI Price Patterns

February 2019 – May 2022

Ukraine · [aipricepatterns.com](#)

- Founded an explainable market-analytics platform; designed the **Rust vector-search core and backtesting engine** and real-time market data processing
- Full technical ownership end to end: backend services, data pipelines, web frontend and deployment

Quantitative Developer (Freelance) — Caviar

August 2018 – February 2019

United States

- Built predictive analytics pipelines in Python and scikit-learn; developed trading strategies using statistical methods and hidden Markov models

Quantitative Developer — SK Capital Partners

April 2015 – October 2017

Cayman Islands

- Developed and tested quantitative strategies for short-term stock options; statistical models and data analysis in R and Python

TECHNICAL SKILLS

Software Engineering	Python · Rust · JavaScript · R · REST APIs · Backend Development · Distributed Systems
Frontend & Web	JavaScript · Vue · Nuxt · Tailwind CSS · HTML/CSS · Websites & Web Applications · Dashboards
Data & Infrastructure	SQL · PostgreSQL · Redis · Docker · ETL & Data Pipelines · Real-Time Data Processing · Linux
Financial Systems	Market Data · Trading Systems · Brokerage Integrations (IG Bank, Interactive Brokers) · Backtesting · Equities · Derivatives
AI & Data	Machine Learning · LLM / Generative-AI Integration · Vector Search · Reinforcement Learning · Data Analysis

SELECTED PROJECTS

Client Websites [eventis.life](#) [associazionefaro.org](#) [fqm100.org](#)

Concept, design and development of bilingual websites for an event agency in Lucerne, a scientific association and an international conference — Nuxt and Tailwind CSS, with forms, an admin area, an interactive 3D view (three.js), SEO and hosting.

SalesEntry — Real-Time Recommendation Engine for Ecommerce [salesentry.app](#)

Rust service for real-time shop recommendations based on completed purchase journeys.

AI Price Patterns — Explainable Market Analytics Platform [aipricepatterns.com](#)

Rust vector search over 2.5M price patterns with sub-millisecond responses; every signal ships with its evidence.

RLX Backtester — High-Performance Backtesting Engine [rlxbt.com](#)

Native macOS app with a Rust engine (6.6M bars/sec) and Monte-Carlo validation.

EDUCATION

Specialist Degree in Finance — Qualification: Economist, Financial Manager 2004 – 2007

Interregional Academy of Personnel Management (MAUP), Kyiv, Ukraine · Specialisation: Financial Management

Junior Specialist Diploma in Business — Qualification: Manager of Business 2001 – 2004

Interregional Academy of Personnel Management (MAUP), Kyiv, Ukraine · Economics and Business

LANGUAGES

Ukrainian	Native
Russian	Native
English	Full professional
German	B1 (actively improving)

REFERENCES

References and employment reference available on request.