

Oleksandr Sierov

Backend Software Engineer (C# / .NET, Azure)
Payments · E-invoicing · AI Engineering

Contact

oleksandrsierov@gmail.com
+351 938 269 313
Braga, Portugal · EU citizen
linkedin.com/in/oleksandr-sierov
github.com/OleksandrS23
oleksandrsierov.vercel.app

Education

- **ISEP — Porto**
  MSc in Artificial Intelligence Engineering

  2025 – 2027 (expected)

- **IPCA — Barcelos**
  MSc in Computer Engineering (2021 – 2024)
  BSc in Computer Systems Eng. (2018 – 2021)

  Final grades 16/20

Skills

- C# · .NET · ASP.NET Core
- Microservices · REST APIs
- Azure · Docker · Kubernetes
- SQL Server · PostgreSQL
- Python · PyTorch · ML
- LLMs · Multi-Agent · NLP
- Angular · React · Next.js

Languages

Portuguese — Native · Ukrainian — Native
Russian — Fluent · Spanish — Basic
English — Professional working proficiency

Profile

Backend-focused software engineer with 5+ years building cloud-native SaaS ERP, accounting and invoicing platforms with C#, .NET, SQL Server and Microsoft Azure. Designed a Stripe payments microservice, migrated four products to modern .NET and rebuilt the SAF-T import pipeline, cutting monthly support tickets by ~70%. Release owner across four product teams, code reviewer and mentor. MSc candidate in AI Engineering (ISEP) working with LLMs and multi-agent systems. EU citizen, open to remote or relocation.

Work Experience

Apr 2026 – Present · Hybrid
Shine · ContaSimple (SaaS ERP, Spain)

Full Stack Engineer

Fiscal features for ContaSimple (SaaS ERP, Spain) in C#, .NET, SQL Server and Azure. Integrated Transpayrent for recurring subscriptions; migrated legacy jQuery/DataTables and built a reusable multi-module list component.

Sep 2021 – Mar 2026
Cegid Primavera | Braga, Portugal

Full Stack Engineer

- Designed a .NET 9 microservice integrating Stripe as Payment Service Provider for ContaSimple; led cross-functional requirements gathering.
- Migrated four products (Jasmin, Rose, Valuekeep, People) from .NET Framework 4.7.2 to .NET 6/7/8 and delivered the Framework 14.2 upgrade.
- Rebuilt SAF-T import with C# Azure Functions (40–50 XML files/month), retiring the legacy importer and cutting monthly tickets by ~70%.
- Rose2Business: proposed and built a customer data migration prototype adopted as the basis of the final solution (120%).
- Release owner across 4 product teams; code reviews, architecture, mentoring and onboarding, on-call in a 9–12 person team.
- Proposed malware scanning for Azure Storage uploads (Defender for Storage adopted); 114% of the maintenance productivity target.

Feb 2021 – Jun 2021
Checkmarx | Braga, Portugal

Software Developer Intern

Engineered a PL/SQL parser for static application security testing (SAST) with ANTLR4 grammars, ASTs and custom C# visitors that detect security vulnerabilities.

Current Research

From Logs to Backlog · MSc Thesis (ISEP × ContaSimple)

Evidence-grounded, LLM-assisted diagnosis of performance degradations in a production SaaS invoicing application: correlating logs, metrics and deployments to locate root causes at endpoint, query and code level, and generating actionable backlog items for developers.

Core Skills

Backend

C#, .NET 10 / 9, ASP.NET Core, EF Core, Microservices, RabbitMQ, Service Bus, Kafka, CQRS, YARP, NestJS, Node.js

AI / ML

Python, LLMs, Multi-Agent Systems (SPADE, FIPA), NLP (BERT, word2vec, speech-to-text), PyTorch, Computer Vision (YOLO, LSTM), XGBoost, LightGBM, scikit-learn, Expert Systems (Drools, Prolog), FastAPI, Ollama

Cloud & DevOps

Azure (Functions, Storage, App Insights, Defender), AWS, GCP, Docker, Kubernetes, CI/CD (Azure DevOps, GitHub Actions), OpenTelemetry, Prometheus, Grafana

Data

SQL Server, PostgreSQL, MongoDB, Redis, Elasticsearch, PL/SQL

Frontend

TypeScript, Angular, React, Next.js, React Native

Practices

Agile / Scrum, TDD, xUnit, Testcontainers, Jest, Clean Code, SAST, Release Management, Mentoring

Certifications

- Microsoft Azure Professional Training (incl. Azure AI Services) — Olisipo, 2025
- Corporate English B2 (97% average) — 2026
- Microservices Architecture
- ASP.NET Core Web APIs
- Clean Code · Scrum · Agile Team Practices
- Oracle PL/SQL Specialist
- Become a Blockchain Developer

MSc AI Projects (ISEP)

Academic paper · Python · SPADE · XMPP · ROS 2 · MQTT · Ollama

Multi-Agent Architecture for Autonomous Robotic Perception and Control

Distributed multi-agent system controlling a TIAGo mobile manipulator in Webots. Agents allocate tasks through FIPA Contract Net auctions with Vickrey pricing, reputation and Bayesian bidding; the robot body runs on ROS 2 / Nav2 over MQTT, with local LLMs via Ollama and FastAPI services.

Academic paper · PyTorch · YOLO · BERT · word2vec · ROS 2

Autonomous Navigation in Dynamic Environments

Perception and interaction for the Cruzr service robot: YOLO detection and YOLOv11 segmentation with a ResNet18 + LSTM temporal model (COCO, KITTI) to predict navigable areas, plus bilingual PT/EN speech-to-text voice commands with BERT multi-label intent classification and word2vec.

Academic paper · Python · XGBoost · LightGBM · TOPSIS · React

Car Price Estimation Using Consumer Preferences

Price estimation with XGBoost, LightGBM and Random Forest regression, combined with TOPSIS multi-criteria decision making to rank vehicles by consumer preferences; Python API and React frontend.

Academic project · Java · Spring Boot · Drools · Prolog · FastAPI

Expert Systems Platform

Rule-based diagnosis expert systems with Drools (Java, Spring Boot) and Prolog (FastAPI), consumed by a React Native client and deployed with Docker Compose.

Other Projects

Personal project · Live: trigger-point.vercel.app · NestJS · Next.js · PostgreSQL

TriggerPoint

Live social and marketplace platform for the airsoft community. NestJS + TypeORM + PostgreSQL backend with Stripe payments, Socket.IO real-time chat, OAuth (Google, Apple) + JWT, web push and gamification; Next.js frontend in 6 languages; Prometheus / Grafana / Loki observability, Docker, Nginx and GitHub Actions CI/CD.

Open source · Python · github.com/OleksandrS23/Spotify2Yt

Spotify2Yt

Cross-platform desktop app (Windows, macOS, Linux) that migrates Spotify libraries to YouTube Music without API keys, with CI and packaged releases.