

# Aleksandar Perovic

PYTHON SOFTWARE ENGINEER

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## Summary

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Software Engineer with 3+ years of experience building and maintaining scalable, production-grade systems using Python (Flask, FastAPI, Django). Proven track record developing RESTful and asynchronous APIs, working with large-scale distributed systems, and supporting ERP/CRM platforms in a SaaS and service-oriented architecture environment. Skilled in SQL and NoSQL databases (PostgreSQL, Oracle, MongoDB, Redis) and experienced with background processing using RabbitMQ and Celery. Strong Linux background and hands-on experience with Docker and CI/CD pipelines.

## Professional Experience

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### Factory Group, Belgrade, Serbia

October 2022 – May 2023

Internship - Python backend developer

- Soccer Bet & SBBet - ERP Systems (October 2022)**

Developed and maintained backend services using Flask, including APIs, third-party integrations, and asynchronous tasks for daily and monthly calculations. Optimized and refactored core logic, achieving a **20% improvement in processing speed**.

### Factory Group, Belgrade, Serbia

May 2023 – Present

Python backend developer

- Architected and maintained RESTful and asynchronous APIs using Flask, FastAPI, and Django, enabling responsive and scalable client services.
- Developed backend modules for ERP, CRM, and bespoke applications, handling complex business logic and integrations.
- Leveraged PostgreSQL, Oracle, Redis, and MongoDB for reliable data storage, caching, and high-throughput queries.
- Ensured high availability and smooth deployments in a Linux environment using Docker and CI/CD pipelines.
- Collaborated with cross-functional teams to deliver secure, performant solutions across finance, logistics, and customer-service domains.

Projects:

### FWI by Ivana Korab - E-commerce Platform (June 2023)

Contributed to frontend development using Vue.js, focusing on UI/UX improvements and visual redesign. Integrated payment systems, which led to a **10% increase in website visits** through enhanced user experience and conversion.

## **NRIZ - Environmental Protection Agency of Serbia (September 2023)**

Worked on a **government regulatory reporting platform** for environmental data submissions. Built custom **reporting modules** and an **admin interface** using **FastAPI**, enabling administrators to review, edit, and manage submitted data from companies and institutions.

## **MIS - Ministry of Finance (CBC Contracts for the EU) (February 2024)**

Refactored and debugged a legacy **Flask application** that initially failed to meet client standards. Delivered a fully compliant and optimized solution under tight deadlines, contributing to the **successful deployment of the project**.

## **NSWS - Serbian Customs Service (May 2025)**

Developed microservices in **FastAPI** as part of a larger customs data management system. Built and deployed services with **Docker**, designed **Oracle databases**, and contributed to integration with the **Oracle Service Bus** for seamless inter-service communication.

## **Freelance Projects**

### **• R22AI - Investment Suggestion Platform (November 2024)**

Built a full-stack investment advisory platform using **Flask (backend)** and **React (frontend)** with a **PostgreSQL** database. Containerized the application with **Docker** and deployed it on a **Linux server**, handling everything from architecture to production deployment.

## **Education**

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Singidunum University | Faculty of Technical Sciences

2023

Bachelor of Software Engineering

## **Skills & Interests**

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Interests: Football, hiking, cars

Languages: Fluent English, native Serbian speaker

Technical:

- **Languages & Frameworks:** Python, Flask, FastAPI, Django
- **API Design:** RESTful APIs, Asynchronous APIs (async/await)
- **Databases:** PostgreSQL, Oracle, MySQL, MongoDB, Redis
- **Messaging & Task Queues:** RabbitMQ, Celery