

# Stepan Demianenko

Graduate Backend Software Engineer — Java, Python, FastAPI, Django REST, SQL

Edinburgh, UK · UK Work Authorisation · Open to Relocation

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## EDUCATION

### Edinburgh Napier University

Expected June 2026

BEng (Hons) Software Engineering · Edinburgh, UK

- **Honours Project:** Completed a Kotlin/Jetpack Compose Android fitness prototype using Room, Health Connect, MVVM, GitHub Actions, and formative usability evaluation with 5 participants.
- **Relevant Modules:** Algorithms & Data Structures, Databases, Web Technologies, Software Engineering.

## EXPERIENCE

### Legal-Pythia LLP (AI-Driven Legal Tech) — Software Developer Intern

Oct 2024 – Jan 2025

Remote

- Refactored monolithic Python ETL into modular Pandas pipelines, cutting runtime **30%** on **10GB+** datasets.
- Engineered async **FastAPI** services orchestrated with **Temporal**, boosting throughput **3x** and reducing client latency.
- Hardened ingestion workflows with idempotent retry logic and structured logging to ensure reproducible runs.

## PROJECTS

### Okta Security Dashboard Backend — Team Project

Apr 2025

Python, Django, Django REST Framework, MongoDB, Redis, Docker, Okta OIDC

- Contributed to a team-built Django backend for a security dashboard, exposing **REST API** endpoints for Okta log analytics, metrics, and investigation workflows.
- Worked with **Django REST Framework** to support structured API routes, serializers, and backend data access for dashboard features.
- Helped integrate backend services with **MongoDB, Redis**, and Docker-based local development infrastructure.
- Supported authenticated backend workflows involving protected routes, API access control, and security-focused dashboard data flows.

### Music & Notes Web App — Flask + JavaScript

Dec 2024

- Built a Flask + JS web app with PDF viewing and note-taking; reduced context switching in informal tests (5 participants).

### DE-Store Prototype — Gateway + Modular Services

Nov 2025

Java, Spring Boot, REST, Kafka, Postgres, JPA, Docker

- Built a Spring Boot store-management prototype with an API gateway (**/api/\*\***) and modular services (pricing, inventory, loyalty, finance, reporting, notifications); runnable as monolith or split ports.
- Implemented low-stock alerting via Spring domain events with optional Kafka topic `stock-low`; consumers via **@EventListener** / **@KafkaListener**.
- Persisted core domains with **Postgres + JPA** and added H2-backed tests (PricingServiceTest, InventoryServiceTest) to validate pricing rules and event emission.

## TECHNICAL SKILLS

- **Backend:** Python, FastAPI, Django REST Framework, Java, Spring Boot, REST APIs
- **Data/DB:** PostgreSQL, MariaDB, MongoDB, SQLite, SQL, Pandas
- **DevOps/Tooling:** Docker, GitHub Actions, Git, Gradle, JUnit, SonarQube
- **Messaging/Workflow:** Kafka, Temporal, Redis
- **Other:** Kotlin, Jetpack Compose, Room, JavaScript, C#, C++

## ACHIEVEMENTS

- **Winner — Napier Hackathon 2023** (1<sup>st</sup> of 10 teams)
- **Languages:** English (Fluent), Ukrainian (Native), Russian (Fluent)