Oleksandr Podynihlazov

Backend & Data Engineer | Python · PostgreSQL · Distributed Data Pipelines

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Full right to work in Ireland (Temporary Protection)

PROFILE

Backend and data engineer with 2+ years of commercial experience building high-volume data ingestion systems (200M+ records/day) and Java/Spring Boot microservices at Fidelity Investments. Final-year BSc Computing with AI & ML student at TU Dublin, on track for First-Class Honours. Available part-time now and full-time from May 2027.

EXPERIENCE

Co-founder, Backend & Data Engineer — Glazoff, Remote — Aug 2024 – Present

- Designed and built, as sole engineer, a distributed ingestion pipeline (Python, PostgreSQL) delivering prices and availability for 99.5% of Ukraine's pharmacies: 200M+ records/day, refreshed every 15 minutes.
- Redesigned the PostgreSQL schema into a narrow fact table and a reference table: storage down 58%, upserts 3.3× faster, validation throughput up from ~8k to 23k rows/s.
- Replaced in-place deletes with an atomic staging-table swap and nightly bloat monitoring, removing a failure mode that deleted fresh data.
- Detected and recovered a silent 8% coverage loss after an upstream API change, re-selecting query points with integer programming; added daily coverage alerting.
- Built self-healing worker orchestration: process supervision, per-line proxy failover and rotation-quality monitoring; integrated with the Horoshop e-commerce platform API.

Software Engineering Intern — Fidelity Investments, Dublin — Jan 2026 – Aug 2026

- Maintained 16 Java 17 / Spring Boot microservices; resolved stale cache synchronisation and cross-service data propagation defects.
- Migrated 15 microservices to scheduled jobs with Kubernetes Horizontal Pod Autoscaling, reducing running costs while sustaining peak availability; aligned the design with a principal engineer and a director from a partner team, with less code to maintain than the alternative proposed.
- Designed and shipped a cancelled-order endpoint that prevents order bursts from overloading dependent services.
- Built Cucumber (Gherkin) integration suites to meet the 80%+ coverage standard; updated Amazon EKS OPA security policies; decommissioned legacy endpoints and feature flags.

PROJECTS

Flame Nebula — NASA Space Apps Challenge 2026 · github.com/OleksandrPodynihlazov/Flame-Nebula — Team Lead (6)

- Led a six-person team to deliver a fire-analytics web app overnight; harmonized 25 years of MODIS/VIIRS satellite detections (8.9M records) into one consistent monthly series and built a nine-signal confidence score per detection.

Elephant in the Room — Charity platform, 2026 — Technical Lead (7)

- Led the migration from a Power Apps prototype to Python/Flask; built the Leaflet map, the data import pipeline, Eircode geocoding and the school–company matching engine.

GoRide — Real-time vehicle rental, 2025 — Backend & DevOps

- Built the asynchronous Django/WebSockets backend, a Celery/Redis billing state machine, geospatial clustering and Docker deployment.

EDUCATION

BSc (Hons) Computing with Machine Learning and AI — TU Dublin — 2023 – 2027 (expected)

First-Class Honours to date. Thesis: forecasting medicine shortages from a self-collected dataset (500 snapshots, ~1 TB). Coursework: Big Data & Advanced Database Technologies, Software QA & Testing, Server-side & Client-side Web.

Software Development (QQI Level 5) — Kerry College — 2022 – 2023

TECHNICAL SKILLS

Languages	Python, SQL, Java 17, HTML/CSS
Data	PostgreSQL, DuckDB, Parquet, pandas, NumPy, ETL
Scraping & automation	Scrapy, Playwright, Selenium
Backend	FastAPI, Django, Flask, Spring Boot, Celery, Redis, REST APIs, WebSockets
DevOps & testing	Docker, Git, Linux, Cucumber/Gherkin, integration testing
Familiar with (used at Fidelity)	Kubernetes, Amazon EKS, Jenkins CI/CD, Datadog
ML	Keras (coursework)

LEADERSHIP & ACTIVITIES

- Tallaght University Hospital Hackathons (2024, 2025): lead backend developer; edge sensor network on Raspberry Pi and FastAPI; e-library portal in Django.
- Fidelity Sports & Social Club (2026): maintained the club's internal web page, designed event materials and coordinated social events.
- Interests: Raspberry Pi home lab, fitness, TTRPG game master.