


Vladyslav Liulka


✉ vladliulka3@gmail.com | 📞 +48 539 319 920 | 📍 Lublin, Poland (open to relocation) | 🌐 [dalvy07](#) |  [Vladyslav Liulka](#)

SUMMARY


Computer Science student (M.Sc., Politechnika Lubelska) with hands-on experience building high-quality systems: a secure REST API with pluggable cloud storage, a geolocation service, and a full-stack ML monitoring platform. Writes tests at every layer - unit, integration, and E2E. Designs for change: Strategy pattern, SOLID principles, 4-layer modular architecture. Seeking a backend or full-stack software engineering internship.

PROJECTS


Acoustic Anomaly Detection System | Python, PyTorch, FastAPI, Java, Spring Boot, React, TypeScript, MySQL, Docker

- Built a **full-stack real-time audio monitoring system** detecting 5 types of dangerous events (gunshots, explosions, screams, sirens, glass breaking) via browser with any microphone
- Fine-tuned **CNN14 (PANNs)** with transfer learning on 22 513 samples (~31h audio); achieved 95.6 accuracy, **84% recall** and 72.5% precision on anomaly classes
- Implemented a **2.5s sliding-window inference pipeline** for live detection; automated test suites passed across Java backend and React/TS frontend
-  github.com/dalvy07/anomaly-project-implementation

Job Tracker | Java, Spring Boot, Spring Security, Spring Data JPA, PostgreSQL, JWT, MinIO, Gradle, Docker

- Designed and built a **secure REST API** with JWT authentication, stateless refresh-token rotation, role-based access control (USER / ADMIN), and BCrypt password hashing
- Engineered a **pluggable file storage abstraction** using the Strategy pattern - enables seamless MinIO (local) to AWS S3 (production) switching with **zero changes to application logic**
- Achieved layered test coverage via **unit, integration, and E2E tests**; documented all endpoints with Swagger / OpenAPI 3.0
-  github.com/dalvy07/job-tracker

StreetBall App — Backend | Node.js, Express.js, MongoDB, Mongoose, Passport.js, JWT, Docker Compose

- Built a **REST API** for street basketball coordination with **5 resource domains**, full CRUD, pagination, and JWT auth with email confirmation
- Implemented **geolocation court search** using MongoDB GeoJSON indexing and Geolib; designed a **4-layer modular architecture** (routes / controllers / services / repositories)
-  github.com/dalvy07/streetball-backend

SKILLS

Languages : Java, TypeScript, JavaScript, Python

Frameworks & Libs : Spring Boot, Spring Security, Spring Data JPA, Hibernate, Express.js, React, FastAPI, PyTorch, NumPy, Pandas, Scikit-learn

Databases : PostgreSQL, MongoDB, MySQL, Redis, Neo4j

DevOps & Tools : Docker, Docker Compose, Testcontainers, GitHub Actions, Git, Swagger / OpenAPI, Gradle, Maven

Human Languages : Ukrainian (native), Russian (native), Polish (working proficiency), English (working proficiency)

EDUCATION

Politechnika Lubelska

M.Sc. in Computer Science, Software Engineering (semester 1 of 3, in progress)

2026 – present

Lublin, Poland

Politechnika Lubelska

B.Eng. in Computer Science, Software Engineering (Informatyka)

2022 – 2026

Lublin, Poland

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