

Gabriel Kaszewski

SOFTWARE ENGINEER · SYSTEMS & INFRASTRUCTURE

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Summary

Systems engineer with 5 years of professional experience. Co-founder of jestzlecenie.pl (registered LLC). Co-author of peer-reviewed research in Nature. Ships production systems in Rust and Python from federated social platforms with hexagonal/DDD architecture to enterprise microfrontend shells. Self-hosts all projects on own Proxmox/Docker/Traefik infrastructure managed via Ansible.

Experience

Co-founder & Backend Engineer

<https://jestzlecenie.pl>

JESTZLECENIE SP. Z O.O.

2024 - Present

- Co-founded a job marketplace — built the backend: Django, PostgreSQL with trigram search, Celery async tasks, real-time messaging, KNN-based recommendations, moderation, notifications.

Software Engineer

Remote | Warsaw, PL

DIGIMONKEYS (CLIENTS: WPP / CHOREOGRAPH / WAVEMAKER, GIAP)

May 2021 - Present

WPP — Backend & Infrastructure (Sep 2023 - Present)

- Designed and shipped backend services and internal tools in Python (FastAPI, Django), deployed to Kubernetes across GCP and Azure.
- Architected microfrontend platform using Angular and Module Federation, unifying standalone tools into a single enterprise shell.

GIAP — GIS Engineering (May 2021 - Feb 2023)

- Optimized PostGIS/PostgreSQL cross-database queries using CTEs — reduced execution from 5+ minutes to under 15 seconds.
- Built a public GIS web application for the City of Gdańsk (<https://geogdansk.pl>) with React, TypeScript, and ArcGIS JS API.

Projects

Movies Diary

<https://movies.gabrielkaszewski.dev>

SELF-HOSTED FEDERATED MOVIE DIARY — RUST

2026

- Hexagonal architecture (DDD), 35 crates — swappable adapters for SQLite/PostgreSQL, filesystem/S3, in-process/NATS event bus. ActivityPub federation (reviews appear on Mastodon), Jellyfin/Plex webhooks, full-text search, React SPA, OpenAPI docs.

Thoughts

FEDERATED MICROBLOGGING SERVER — RUST, NEXT.JS FRONTEND

2025 - Present

- Full ActivityPub implementation with NATS JetStream fan-out. Same hexagonal architecture; reuses k-ap, a shared ActivityPub library extracted and published across both projects.

Skills

Languages

Rust, Python, TypeScript, C#, C++

Backend & Infra

Axum, FastAPI, Django, Celery, Docker, Kubernetes, Ansible, Proxmox, Traefik

Data & Messaging

PostgreSQL, SQLite, PostGIS, NATS JetStream, S3

Frontend

React, Next.js, Angular, TailwindCSS

Platforms

GCP, Azure, GitLab CI

Spoken

Polish (Native), English (C1)

Education

University of Gdańsk

Gdańsk, PL

B.S. IN BIOINFORMATICS

2021 - 2025

- Thesis:** “Modeling evolutionary processes using cellular automata”
- Publication:** Co-authored in Nature Scientific Reports (DOI).

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