

Serge Zavizion

Senior Python Backend Developer

Dnipro, Ukraine (UTC+2/+3) • Remote • +380 67 918 56 67 • zavizionsergey@gmail.com
linkedin.com/in/serge-zavizion • github.com/SergeZazik • zavizion.dev

SUMMARY

Python backend developer with 8+ years building and shipping production web services on Django, DRF, Flask and FastAPI. Strong in PostgreSQL/PostGIS data pipelines, REST API design, and AI/LLM integrations (OpenAI, ElevenLabs). Comfortable owning projects end-to-end, from data modeling and performance tuning to deployment, across web platforms, geospatial systems and IoT.

TECHNICAL SKILLS

Languages: Python, SQL

Frameworks: Django, Django REST Framework, FastAPI, Flask

Databases: PostgreSQL / PostGIS, MySQL, MongoDB, Redis, SQLite, InfluxDB

APIs & Integrations: OpenAI, ElevenLabs, Stripe, Twilio, Shopify, Google APIs

Async & Queues: Celery, asyncio, WebSockets (Django Channels), MQTT

Cloud & DevOps: AWS (S3, EC2), GCP, Docker, Nginx, Linux

Testing & VCS: Pytest, Unittest; Git (GitHub, GitLab, Bitbucket)

Also: SQLAlchemy, Shapely, Leaflet, Grafana, JWT

PROFESSIONAL EXPERIENCE

Freelance — Python Backend Developer

JULY 2025 – PRESENT

Remote. Backend development for two production products: a geospatial real-estate platform (Cyprus) and an AI-powered language-learning platform.

Geospatial real-estate platform — Django, PostGIS

- Built the parcel data backend: data modeling, spatial queries and admin tooling over 3D MultiPolygon geometries.
- Built batch ETL pipelines loading Greek cadastral data into PostgreSQL with idempotent upserts (ON CONFLICT) instead of row-by-row inserts.
- Merged three parcel tables into a single deduplicated source; added map-driven filtering in Django admin with two-way Leaflet ↔ form sync.

AI language-learning platform — FastAPI, OpenAI, ElevenLabs

- Cut response time of the core /process-question endpoint by ~45% (9s → 5s) by running OpenAI calls, TTS and history persistence in parallel (AsyncOpenAI + asyncio.gather).
- Replaced N+1 queries in rules loading with a single batch query; parallelized audio generation with a thread pool and caching.
- Integrated OpenAI and ElevenLabs for exercise generation and speech synthesis; implemented JWT auth with refresh tokens.

Canyon Development — Python Developer

AUGUST 2024 – JULY 2025

Control and monitoring systems for a network of ~50 EV charging stations.

- Designed and built a Flask + MQTT control panel for real-time management of ~50 charging stations: configuration, start/stop, connection status and charge levels.
- Implemented authentication and role-based access control (admin, operator, technical service).
- Built an IoT telemetry service ingesting device data over HTTP and WebSocket, storing time series in InfluxDB and visualizing metrics in Grafana.
- Developed an on-device PyGame/Flask client for LED screens (text, animated banners, QR previews), with GPIO LED indication and ALSA sound notifications managed via systemd/udev.
- Built declarative network configuration with automatic Wi-Fi/LTE failover.

Lunka Technologies — Python Developer

JULY 2021 – FEBRUARY 2024

Outsourcing company. Delivered and maintained four client web projects on Django, DRF, Flask, PostgreSQL and MongoDB.

- Delivered four client projects end-to-end: new feature development, API design, maintenance, bug fixing and functional testing.

- Built REST APIs with Django REST Framework to integrate multi-platform applications.
- Maintained and extended production systems, shipping updates and resolving defects throughout the development lifecycle.

I-CITY — Python Developer

MARCH 2020 – JULY 2021

Software for urban and municipal transport.

- Developed GPS-tracking systems for urban and municipal transport.
- Built automated performance-analysis tools for transport operations.
- Built software for parking terminals.

DreamTek — Python Developer (Freelance)

OCTOBER 2019 – MARCH 2020

- Built a web platform for freelancers on Django.
- Integrated Stripe for payment processing.

SoftServe — Python Software Developer

FEBRUARY 2019 – OCTOBER 2019

- Developed and optimized a platform automating intangible-asset assessment, reducing time spent on routine tasks for business users.
- Maintained comprehensive test coverage with PyTest.
- Worked in an Agile team using Scrum and Jira.

GoWombat Team — Python Developer

JULY 2017 – FEBRUARY 2019

- Delivered ~10 web and mobile projects end-to-end: e-commerce platforms, CRM systems, ad-monetization and healthcare applications.
- Built APIs powering mobile application functionality and third-party integrations.

EDUCATION

National Aerospace University «Kharkiv Aviation Institute»

Master's degree, Computer Engineering (System Programming)

2022 – 2024

National Metallurgical Academy of Ukraine

Specialist degree (5-year), Automation of Production Processes

2004 – 2010

LANGUAGES

Ukrainian — Native • English — Upper-Intermediate (B2)