

SERGII GREKOV

Senior Python Engineer

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CORE

Python · SQL · Bash
FastAPI · Django · Flask · Starlette
SQLAlchemy · Alembic · Pydantic
REST · GraphQL · gRPC · Protocol Buffers

DATA

PostgreSQL · MySQL · Elasticsearch
Redis · MongoDB · DynamoDB
Databricks · PySpark · pandas · ETL
Azure Synapse Analytics · Microsoft Fabric

CLOUD & INFRASTRUCTURE

Google Cloud — Cloud Run, Pub/Sub, Cloud SQL, Cloud Storage
AWS — Lambda, Athena, ECS, S3, DynamoDB
Docker · Kubernetes · Terraform
GitLab CI · Jenkins

ORCHESTRATION & OPERATIONS

Temporal · Apache Airflow · RabbitMQ
Datadog · OpenTelemetry
Production triage · incident analysis

ALSO

Node.js · Express · JavaScript · PHP
LangChain · LangGraph · Azure OpenAI

PRACTICES

TDD · BDD · code review · Agile
GxP-validated environments

LANGUAGES

Ukrainian — native
Russian — native
English — C1

CERTIFICATIONS

Claude Certified Developer – Foundations (Anthropic, 2026)
Capgemini L2 Industry Certification – Tech & Digital
Capgemini L1 – Developer Productivity Tools: GitLab DUO
Connected Manager – Capgemini / Harvard

PROFILE

Senior Python engineer building backend systems, data platforms and APIs since 2010. I design and deliver services, deploy them on GCP and AWS, and own production operation, including triage and incident analysis. My focus is asynchronous Python, workflow orchestration, relational data modelling and API design. Recently promoted to project team lead, coordinating three engineers while remaining hands-on. Earlier experience includes production Node.js/Express backends and full-stack PHP and JavaScript development.

EXPERIENCE

Senior Software Engineer — Capgemini Engineering, Kyiv

October 2019 — Present

Long-running client engagements. Client names withheld.

ETL platform migration

Global beverage company · October 2026–Present

- Working on an ongoing ETL migration from Azure Synapse Analytics to Microsoft Fabric. The engagement began in October, overlapping with the final month of the advertising project below.

Azure Synapse Analytics · Microsoft Fabric · ETL

Advertising data synchronisation platform

Global media and advertising group · August 2025–October 2026 · team of 5–6, then 4

- Built Temporal-orchestrated synchronisation workflows in asynchronous Python, versioning entities in PostgreSQL and projecting them into Elasticsearch, with change events on Google Cloud Pub/Sub.
- Designed and delivered blue/green zero-downtime deployment for Temporal workers, replacing a process that dropped in-flight synchronisations.
- Diagnosed and eliminated database connection pool exhaustion and a class of adapter timeouts, taking recurring production failures to zero.
- Built Datadog monitoring as code in Terraform and ran regular production triage: log and trace correlation, incident analysis, defect write-ups.
- Promoted to project team lead for the final six weeks, coordinating three engineers alongside my own delivery and participating in cross-team lead syncs amid client organisational changes and migrations.

Python · FastAPI · Temporal · SQLAlchemy · PostgreSQL · Elasticsearch · GCP · Terraform · Datadog · OpenTelemetry · Docker · GitLab CI

Clinical study operations platform

Global pharmaceutical company · 2022–2025 · team of 12 reducing to 4

- Key contributor to migrating the platform off its legacy stack while it remained in active production use.
- Introduced end-to-end automated testing on production-like data, materially improving release stability.
- Built GraphQL custom directives, DataLoaders to remove N+1 queries, row-level access control and sensitive data masking.
- Contributed to the rules engine deriving trial milestones and risks, and to a GenAI assistant built on a LangGraph agent. Delivered within a GxP-validated environment.

Python · Django · GraphQL · Graphene · SQLAlchemy · MySQL · Databricks · PySpark · Docker · Jenkins · SonarQube

Drug safety and quality analytics

Global pharmaceutical company · 2021–2022 · team of 9

- Built an asynchronous GraphQL API over PostgreSQL with resolver and repository layering and dependency injection.
- Integrated OAuth 2.0 / OpenID Connect single sign-on, including a mock identity provider for local development.
- Built the Databricks ETL feeding the reporting tables, scheduled through Airflow, to a 95% test coverage gate.

Python · Starlette · Ariadne · GraphQL · async SQLAlchemy · PostgreSQL · Databricks · Airflow · AWS

Data lake API and SDK

Global pharmaceutical company · 2019–2021 · sole developer

- Designed and built a gRPC service centralising data lake metadata and permissions and brokering temporary AWS Athena credentials.
- Built the client SDK that let multiple teams query the lake as pandas or Spark frames without handling credentials or catalogue plumbing.
- Released as a versioned package consumed across the organisation.

Python · gRPC · Protocol Buffers · AWS (Athena, Glue, S3, STS, ECS) · pandas · Databricks

Software Engineer — 2K Group, Kyiv

May 2011 — October 2019 · joined as junior, grew to senior

In-house products: a consumer VPN service with its supporting platform, and a marketplace for medical laboratories.

- Built a distributed monitoring system of independent components over RabbitMQ — scheduler, crawler, checker, analyzer and notifier roles across multiple machines — with leader election, single-instance locking and self-healing supervision. Introduced continuous integration and automated testing to the company.
- Built the VPN server fleet architecture on AWS with automatic balancing, multi-cloud provisioning across DigitalOcean, Linode and Vultr, geo-IP region assignment and automated DNS management. Built a real-time session analytics pipeline and a serverless multi-tenant analytics API.
- Led backend development on a medical laboratory marketplace as primary author: a Node.js/Express REST API with Firebase Cloud Functions, JSON-Schema validation, JWT and ACL, BankID identity verification and SOAP integration with laboratory chains.
- Sole author of a Node.js/Express backend for a social events mobile application: JWT and bcrypt authentication, geolocation and timezone resolution, cloud image storage and Apple Push Notifications.
- Earlier, full-stack PHP and MySQL development on a luxury watch brand platform built on a bespoke CMS: faceted product catalogue, store locator, warranty lookup, multi-language content and SEO management.

Python · Flask · SQLAlchemy · Node.js · Express · PHP · MySQL · MongoDB · Redis · RabbitMQ · AWS · Firebase · Docker · Kubernetes · Jenkins · Backbone.js

Web Developer — Autoline, Kyiv

May 2010 — May 2011

First production role. Full-cycle development of a classifieds platform: public site, user account dashboard and an admin interface for content managers. Supported a live environment at ~10,000 daily visits, with consistent behaviour across Internet Explorer 6 and 7, Firefox and Chrome.

PHP · JavaScript · jQuery · MySQL · HTML · CSS

EDUCATION

Master's Degree, Music Art

National Pedagogical Drahomanov University, Ukraine

Graduated 15 September 2022

Bachelor's Degree, Programming

Lviv Polytechnic National University, Ukraine

Graduated 31 December 2014