

# Pavlo Filatov

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## Summary

Experienced software engineer specializing in backend development, cloud infrastructure, and scalable services. Deployed serverless solutions, optimized API performance, and built asynchronous microservices for fintech and marketplace applications, leveraging technologies like Python, Docker, Kubernetes, Terraform, and JavaScript.

## Work experience

📅 01.2023 – PRESENT

### Tech lead PostData.ai

- **Performance Improvement:** Optimized API performance, reducing the 99th percentile response time from 8 seconds to less than 0.9 seconds.
- **Job Automation:** Deployed multiple long-running tasks using Cloud Functions and Cloud Run Jobs to streamline workflows and improve operational efficiency.
- **Infrastructure as Code (IaC):** Utilized Terraform to deploy and manage cloud infrastructure, ensuring efficient and consistent application deployment.

**Technologies:** Python, FastAPI, GCP, Terraform, Lambda, PostgreSQL, Firestore

📅 01.2021 – 01.2023

### Senior software engineer Star.global

- Building high-load data ETLs
- Fast and Secure Payments
- Eventually consistent data in the database
- Full cycle development. From creating design, to writing code, CI/CD, helmfiles, monitoring, and alerting

#### Personal achievements:

- Improved SSE protocol support for open source library aiohttp.
- Client payment journey was twice as faster compared to the other payment integrations that we had.

**Technologies:** Python, FastAPI, Kafka, AWS, helm, Kubernetes, PostgreSQL, Redis

## Work experience

📅 06.2018 – 10.2020 📍 KYIV, UKRAINE

### Software Engineer Evo.company

- Build, documented and tested asynchronous microservice (gRPC) from scratch.
- Created fully typed clients for both Typescript and Python that were distributed via a private package on npm and PyPI respectively.
- Rewrote the whole report system from scratch with Apollo GraphQL, React hooks, and Typescript
- Configured continuous integration and deployment of the microservice with Kubernetes, helm, GitLab CI, and docker registry

**Personal achievements:** Successfully rewrote key system in a high-load marketplace serving 200,000 users, ensuring smooth integration with the monolith and efficient deployments.

**Technologies:** Python, Django, PostgreSQL, ElasticSearch, GitLab CI/CD, helm, Kubernetes, Docker, gRPC, GraphQL

📅 11.2017 – 07.2018 📍 KYIV, UKRAINE

### Software Engineer Quests

- Client integrations
- Privacy handling
- Deploying the application
- Maintaining high stability and availability of the service

**Technologies:** Python, Django, Docker, Ansible

## Open Source Projects

**Elasticsearch-py:** Contributed to an official python low-level client for ElasticSearch.

Fixed the situation in which a few connections getting killed at the same time would raise an error.

**Aiohttp:** Extended session class to include default and user-submitted parameters, fixed typings, improved docs.

Contributed also to **aiolastcsearch**, **create-aio-app**, **aiohttp\_graphql**, **geopy**, and other.

## Education

📅 2011 – 2017

### Faculty of Electric Power Engineering and Automatics | Master's Degree NTUU “KPI”