

# Andrii Kh.

## Senior Python Software Engineer

### SUMMARY

- Python Engineer with 5+ years of experience designing, developing, and maintaining web applications and services across diverse industries (Financial Services, Healthcare, E-commerce, Education).
- Proficient in both full-stack and backend development utilizing Python frameworks like Django, FastAPI, and Nameko.
- Designed and implemented microservices for financial trading platform, healthcare platform, and more.
- Extensive experience with relational (MySQL, PostgreSQL) and NoSQL databases (MongoDB, Redis). Optimized queries using Django ORM and SQLAlchemy.
- Utilized AWS S3 for storage and integrated with various cloud services (Stripe, Auth0, Pipedrive).
- Strong computer science expertise and commercial experience in web services architecture and development
- Experience with scrapers, extracting data from sites, serializing and validating data

### TECHNICAL SKILLS

<b>Main Technical Skills</b>	Python
<b>Programming Languages</b>	JavaScript, Python
<b>Python Libraries and Tools</b>	Aiogram, Pydantic, pytest
<b>Python Frameworks</b>	Django, Django REST framework, FastAPI
<b>JavaScript Libraries and Tools</b>	Quasar
<b>JavaScript Frameworks</b>	React, Vue.js
<b>Security</b>	Auth0
<b>Databases &amp; Management Systems / ORM</b>	MongoDB, MySQL, PostgreSQL, Redis, SQL, SQLAlchemy
<b>Cloud Platforms, Services &amp; Computing</b>	AWS
<b>Message/Queue/ Task Brokers</b>	Celery, RabbitMQ



<b>Deployment, CI/CD &amp; Administration</b>	CI/CD
<b>Virtualization, Containers and Orchestration</b>	Docker, Docker Swarm
<b>SDK / API and Integrations</b>	FastAPI, OpenAPI, Stripe
<b>Version Control</b>	Git
<b>Logging and Monitoring</b>	Grafana, Prometheus
<b>Collaboration, Task &amp; Issue Tracking</b>	Jira
<b>Methodologies, Paradigms and Patterns</b>	Kanban, Scrum
<b>Operating Systems</b>	Linux, Windows
<b>QA, Test Automation, Security</b>	pytest, Unit Testing
<b>Other Technical Skills</b>	gRPC, Nginx/Traefik

## EXPERIENCE

### Python Engineer, Financial/Crypto trading terminal

August 2023 - March 2024

**Description:** Terminal for crypto trading that expands possibilities of trading that usual exchanges don't have, has its own analytics services, and offers statistics about your trading story

#### Responsibilities:

- Updating existing microservices,
- Adding metrics,
- Optimizing Materialized Views,
- Reviewing code,
- Fixing bugs,
- Writing unit tests,
- Optimizing endpoints
- Processed trades and managed positions.
- Conducted analytics to optimize trading strategies.
- Was responsible for storing and managing wallet information and transaction data.
- Ensured the security and accuracy of wallet information and transaction records.



**Technologies:** Django, DRF, Celery, MySQL, Redis, TimescaleDB, MongoDB, Centrifugo, OpenAPI, gRPC, Grafana, Prometheus

### **Full-Stack Python Engineer**

Jan 2023 - Aug 2023

**Description:** German platform for displaying company sales and customer data

#### **Responsibilities:**

- Development of endpoints,
- writing tests,
- writing SQL queries for Materialized views
- Implemented and integrated new functionality

**Technologies:** FastAPI, SQLAlchemy, PostgreSQL, Pydantic, MongoDB

### **Full-stack Python Engineer**

Aug 2022 - Jan 2023

**Description:** Finnish monolithic platform for doctors and patients, where doctors offer their services and communicate with patients through subscriptions

#### **Responsibilities:**

- Development of endpoints,
- Writing tests,
- Optimization of queries with Django ORM,
- Migration from Django 2 to Django 4,
- Refactoring old APIView endpoints to generics,
- Backward compatibility,
- Rewriting frontend web chat from Backbone js to Vue 3,
- Setting up a reverse proxy

**Technologies:** Django, DRF, Django Channels, MySQL, Vue.js, Celery, Redis, Docker Swarm, Nginx, Traefik, AWS S3, CI/CD

### **Full-stack Python Engineer**

April 2021 - November 2021

**Description:** HealthCare. Finnish microservices platform for tracking patient medical indicators

#### **Responsibilities:**

- Development of endpoints,
- writing tests,
- development of new microservices,
- implementation of data validation between microservices,
- implementation of a unified logging standard



**Technologies:** Django, DRF, Nameko, SQLAlchemy, PostgreSQL, Auth0, Marshmallow, RabbitMQ, Vue.js

## Python Engineer

February 2021 - April 2021

**Description:** Shop for selling antique items

### Responsibilities:

- Maintenance of old legacy code,
- refactoring problematic areas,
- identifying bottlenecks,
- optimization of Django ORM queries
- Developed new features
- Bug fixing

**Technologies:** Django, DRF, PostgreSQL, Celery, Redis, Stripe, AWS S3

## Python Engineer

May 2020 - February 2021

**Description:** Project for generating CSV files for testing purposes

### Responsibilities:

- Development of the project from scratch,
- integration and configuration of CI/CD,
- frontend development,
- writing tests

**Technologies:** Django, DRF, PostgreSQL, Vue.js, Celery, RabbitMQ, AWS S3, GitHub Actions

## Python Engineer, Telegram Selling bot

January 2019 - April 2020

**Description:** Bot for selling courses and educational materials

### Responsibilities:

- Development of new functionality,
- implementation of a referral system,
- introduction of payment processing,
- normalization of the database,
- integration with CRM system

**Technologies:** Aiogram, Stripe, Pipedrive, Pydantic, SQLAlchemy, PostgreSQL



## EDUCATION

**Taras Shevchenko, Kyiv University**

Software Development

