

Go/Python software engineer

Aleksandr

Objective

Detail-oriented and experienced Go/Python software engineer seeking a challenging role to leverage my skills in RDBMS, streaming services, chats, and distributed systems architecture. Committed to bringing robust, efficient solutions to the software development industry.

Experience

Senior Go/Python Developer

<https://cheelee.io/>, remote

02.2023 - Present

Short video platform.

- Designed and implemented a robust queue system using PostgreSQL, utilizing `SELECT..FOR UPDATE OF..SKIP LOCKED` for efficient and reliable job processing.
- Led a project to set up an efficient parallel image (blockchain NFT) rendering pipeline for Blender scenes using AWS Batch and AWS Step Functions, achieving substantial cost savings and time reduction.
- Managed rendering jobs on Amazon EC2 using AWS Batch, and coordinated dependencies across the workflow using AWS Step Functions.

Stack:

Microservices, Clean architecture;
Python 3.9, 3.11, asyncio, FastAPI;
Redis, PostgreSQL, ClickHouse, Scylla, MongoDB;
Kafka;
AWS, Kubernetes, Docker.

Senior Python/Node.js/Go software engineer

<http://zvuk.com/>

02.2022 - 02.2023

Audio streaming service with 4 mln monthly active users, integrated with the Huawei Music app.

- Implemented bi-directional cursor pagination with GraphQL federation.
- Refactored a large codebase with the goal of reducing the maximum amount of opened transactions in Postgres. As a result cost reduction: less transactions means less connections means less amount of running processes on Postgres hosts. Also significant performance benefits for complex queries: less transactions means less blocking operations (fsync, wal log flush, etc).
- Transitioned microservices to Psycopg3 from Aiopg, implemented SQLAlchemy Core wrapper for Psycopg3. Introduced Postgres prepared statements as a company standard and started implementing them.

Fastapi, Aiohttp, Asyncio-Pytest, Mypy (100%), PostgreSQL, MongoDB, Redis, CI/CD, SQLAlchemy core, Linux, Nginx, Aiokafka, Poetry, Testcontainers, k8s, Helm, GitHub -> Gitlab.

Senior Python software engineer

mysky.com

07.2021 – 11.2021

Cost analysis solutions for owners of private airplanes.

Fastapi, Aiohttp, Celery, Marshmallow, Gino ORM, PostgreSQL, MongoDB, CI/CD, Firebase cloud messaging, Confluent Kafka, Ansible, Redis, SQLAlchemy, Linux, Nginx.

Senior Python/Node.js/Golang software engineer

Darwin LLC

01.2020 – 07.2021

Flask, Aiohttp, FastAPI, Asyncio, Tornado, Golang, CI/CD, ClickHouse, Raw SQL, PostgreSQL, Celery, Marshmallow, Ansible, Unicorn, AWS, GCP, CircleCI, Mypy, Poetry, Starlette, Redis, Nginx, Pytest, unittest, Kubernetes, Docker, MongoDB, Kafka, Nameko.

Senior backend software engineer, CEO, co-founder

Zima LLC

2018 – 2019

Core-banking solutions for financial institutions.

Python, Flask, Sanic, Aiohttp, Golang, Docker, ClickHouse, Ansible, CI/CD, PostgreSQL, MongoDB, Marshmallow, raw SQL, Redis, SQLAlchemy, Linux, Nginx.

Full stack software engineer, CEO, co-founder

Novotech LLC

2013 – 2018

Enterprise on premise and SAAS solutions for quantitative and high frequency trading.

Python, Flask, Sanic, Aiohttp, Golang, ObjC, RxJava, Java, ReactJS, NodeJS, CI/CD, ClickHouse, MongoDB, Marshmallow, Ansible, Celery, Redis, SQLAlchemy, Linux, Nginx.

Additional info

Programming Languages: Go, Python, Node.js

Frameworks/Libraries: FastAPI, Flask, Aiohttp, Celery, Sanic, Tornado, asyncio, Starlette

Metrics: Kibana, Prometheus, Grafana

Databases: PostgreSQL, Cassandra, Redis, ClickHouse, Scylla, MongoDB, AWS Aurora, AWS Dynamo

Testing Tools: Asyncio-Pytest, Pytest

Type Checking: Mypy

Cloud Services: AWS (S3, Lambda, EC2, Batch, and Step Functions), GCP

CI/CD & Version Control: GitHub, GitLab, Ansible

Containerization & Orchestration: Docker, Kubernetes, Helm

Streaming Services: Kafka, Aiokafka, Confluent Kafka

Web Servers: Nginx, Unicorn

Operating System: Linux

Query Languages: GraphQL, Raw SQL

Other: Microservices, Clean architecture, ETCD, k8s Rancher