

Akim Mukhtarov

Python Developer

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Summary

Python developer with 4 years experience including 2 years in full-time projects.

I made APIs, automated infrastructure deployment and HPC cluster for distributed computing on Google Cloud Platform. Also have experience freelancing and developing open source projects.

Looking for experience with clouds and other programming languages (C, C++ or Go).

Away from work I develop software for algorithmic trading. Located in Yerevan, Armenia, considering relocation.

Skills

- Programming languages: Python, SQL, C
- API: FastAPI, Django Rest Framework, Tornado
- Clouds: Google Cloud Platform
- Databases: PostgreSQL, Redis
- Deployment: Terraform, Ansible, Singularity, Docker, Docker Compose
- Testing: pytest, Jenkins
- Tools: SQLAlchemy, RabbitMQ, Celery, Git, Lustre FS, Slurm Workload Manager
- Knowledge of algorithms, data structures, OOP patterns, asyncio
- English B2, Russian native

Work Experience

Software Engineer

Quantori LLC

Apr 2022 – Nov 2022

Quantori is a software company that renders its digital IT and data science expertise services for Life Sciences and Healthcare research. Cambridge, USA.

Project: Developing a platform for distributed computing with browser interface.

Tasks and achievements:

- Automated deployment of a Slurm cluster via Terraform
- Automated cluster provision via Ansible
- Provided integration of JupyterHub with Slurm cluster on GCP infra
- Implemented API (python + tornado) to spawn and manage clustered file system (Lustre FS) programmatically.
- Created and maintained Singularity images with desired environment
- Selected GCP solutions for the project infrastructure

Environment, tools: Slurm Workload Manager, Compute Engine, Cloud Storage, Filestore, Deployment Manager, Lustre FS, Ansible, Terraform, Python, SQLAlchemy, Tornado, Bash

Python Developer

GodjiGame LLC

Aug 2020 – Dec 2021

Chain of eSports clubs and arenas in Russia.

Project: Development of projects for a chain of eSports clubs: authorization on remote machines and a player reward system.

Tasks and achievements:

- Designed API of a player reward system
- Provided integration of side API with our CRM
- Built bots for a messenger to provide interface to users
- Provided API for authorization on remote machines using Windows Credentials Provider

Environment, tools: Python, Django Rest Framework, FastAPI, Celery, RabbitMQ, Redis, Docker, Jenkins, WebSockets

Analyst

Radeant LLC

May 2019 – Sep 2019

Stock photos service located in Russia. The task of the team was to develop some kind of supplementary product for the same audience, which would help to increase the revenue.

Project: Releasing a supplementary product for a stock photo service that allows users to easily remove watermarks from images.

Tasks, achievements:

- Drafted specifications for software engineers
- Tasks supervision
- Conducted customer development sessions
- Analyzed A/B tests results

Environment, tools: Google Analytics, Yandex Metrica, Google Spreadsheets, Jira, Miro

Open Source

Created and maintain "backintime" - a tool for testing trading strategies on historical data.

Works with exchange API or csv files, manages orders, calculates indicators and statistics of results, supports exporting results to csv. Away from work I develop a new version, where I added support for Stop Loss and Take Profit orders.

Sources: <https://github.com/akim-mukhtarov/backintime/tree/v163>