

Ivan Kharakhashyan

Senior Python Engineer

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🌐 <https://github.com/ivankharak> 🔗 <https://ivanportfolio-gray.vercel.app/>

Profile Summary

- **Program languages:** Python, Javascript, SQL, PHP, C/C++, HTML/CSS, Shell script
- 10+ years of experience with **Backend Development** using **Django(Django Rest Framework)**, **Flask**, **FastAPI** and **Node.js**
- 7+ years of experience with managing **structured and unstructured data** using **PostgreSQL**, **MySQL**, **MongoDB**, **AWS DynamoDB**, **Azure CosmosDB**, **Neo4j**
- 7+ years of building and managing CI/CD pipeline using **Docker**, **Terraform**, **Kubernetes**, **Ansible**, **Vagrant**, **VirtualBox**
- 7+ years of Cloud Experience with **AWS**, **Azure** and **GCP**
- 5+ years of Frontend Development with **React** and **Vue**
- Strong experiences with writing fully **maintainable/scalable and test driven code** using like **PyTest**, **Jest**, **Testing**, etc
- Solid experiences with **asynchronous task** queue implementation using **Celery**, **Redis**, **RabbitMQ**
- Using **OpenAI**, Integrated GPT model, Designed and Trained custom language model
- Third-party APIs integration such as **Stripe**, **Paypal**
- Full text search functionality using **Elasticsearch**, **AI search**
- Data scraping with **Scrapy**, **BeautifulSoup**, **Spider** and automation testing with **Selenium**
- Data visualization with **Plotly**, **Dash**, **D3**, **Looker**, **Sisense**
- Big data engineering with **PySpark**, **Pandas**, **DBT** and **Snowflake**
- **Project/Task Management** using **Agile Scrum**, **Kanban**, **Jira**, **Azure Devops**, **Clickup**, **Atlas**, **Swarmia**
- **Linux** experience with **Shell script**

Professional Experience

06/2020 – Present
London, UK

Senior Python Engineer, Peiko

- Architected several successful projects of clients (**E-Commerce Marketplace**, **Financial Loan Solution**, **eLearning**, **Healthcare**)
- Guided and instructed junior developers on industry **best practices** for writing **maintainable** and **scalable** code during meticulous code reviews; led to increase in code quality and **reduction** in technical debt within **Django (DRF/Graphene)**, **Flask**, **FastAPI(Strawberry)**.
- Integrated **third-party APIs** to ensure a seamless customer experience using **OpenAI(LLM)**, **Elasticsearch**, **Stripe** and etc.
- Wrote custom Python scripts for data manipulation that saved the company approximately 10 hours of manual work per week.
- Collaborated with a cross-functional team to **integrate machine learning algorithms**, resulting in a improvement in data processing efficiency.
- Spearheaded the implementation of a revolutionary **RESTful API**, revolutionizing data retrieval procedures and **fortifying** system performance, leading to surge in customer engagement and an enhancement in data accuracy.

06/2017 – 02/2020

Jalan Lekar,
Singapore

Python Engineer, Qian

- Built a **serverless API** using Node.js and **AWS Lambda** functions that connects a web application to a **third-party service**, such as **SendGrid**, to send email or SMS notifications.
- Developed progressive web apps with **Django**, enhancing mobile user **engagement** by more than 50%.
- Designed and implemented a database system in PostgreSQL that **optimized storage** and retrieval operations.
- **Optimized** existing backend code, leading to a **reduction** in **server response time**.
- Assisted in transitioning the development environment to **Azure** resulting in a more consistent deployment process.
- Performed extensive **code reviews** to enforce coding standards and improve application's **security** and **scalability**.

08/2014 – 03/2017

California, USA

Python Developer, Toptal Freelance

- Worked various **Django** projects along with HTML, CSS, JavaScript, Bootstrap
- Improved the **user experience** by implementing **infinite scrolling**, and **smooth animations**
- Monitored **backend servers** and **database** performance using **Datadog** and **Azure**.
- Implemented data validation and cleansing logic in the backend system using **Python** to ensure the **accuracy** and **integrity** of financial data.

Education

2010 – 2014

Stockholm, Sweden

Bachelor of Computer Science, Stockholm University
Web Development and Software Engineering

Projects

BURROW (B2C Ecommerce, React, Django, GraphQL) [↗](#)

- I contributed to developing this **web platform** that connects **families caring for elder individuals** with **senior care professionals** and provides guidance throughout the journey.

E-commerce site and internal production management system [↗](#)

- Modernized a decade-old **legacy Django project** from a monolithic architecture to a **microservice design** using **Django Rest Framework** and React/Nextjs for the frontend (Project stack - Django, Django Rest Framework, React, Next).

Roomster, Real Estate, React, Flask, Airbnb-like, GIS [↗](#)

- **Roomster** is an **Airbnb-like social platform** for people around the world who are looking for roommates to live with. It has 5+ million active listings in different countries all over the world and 3+ million active users every month. It has a website built with **Python/Flask, and React**.

ORION Trading Terminal (React, Django, DeFi) [↗](#)

- Develop and maintain high-performance, **scalable**, and **user-friendly** trading terminal for ORION.

Stringboard: Visual Sales CRM [↗](#)

- My role involved building the platform's **interactive features**, such as visual stakeholder maps, and ensuring that these elements are integrated smoothly with the **backend systems** that handle **data management and analytics**. This functionality allows sales teams to create detailed profiles of each stakeholder and track their individual journeys towards making a purchasing decision.