

Denis Trofimov

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EXPERIENCE

01/2021 – 07/2024

Huma Therapeutics, London, UK, <https://www.huma.com/>

Lead Platform Engineer

- I designed and developed a custom IDP solution for the company, which includes all Huma products such as patient monitoring, pre-trained AI models, and any docker container applications. This IDP allows for 0-day operations as well as some day-2 operations, such as data backup and restore.
- Automated pull request feature for the back-end development team, allowing them to preview back-end APIs in temporary cloud environments. This effectively reduces the time it takes to deploy from eight hours to fifteen minutes!
- To automate DevOps tasks related to managing cloud resources, I have created Kubernetes operators that provide instant access to AWS S3, Google Cloud Storage, and Atlas MongoDB PostgreSQL and Redis cache.
- Furthermore, I automated the CI/CD (Continuous Integration and Continuous Deployment) process using Argo CD and Grafana Cloud, among other tools. This increases both speed and reliability.
- For two years, I led an internal platform team consisting of two senior engineers.

Technology

- Golang, Kubernetes API, Typiscript, Vue.js, Operator SDK Go, MongoDB, Docker, GitHub CI, PostgreSQL, Redis
- Jira, Confluence, GitHub, VSCode, Hugo
- GCP GKE, AWS EKS, Azure AKS, Terraform, Helm, ArgoCD, Helmfile, Grafana Cloud, Atlas Cloud, KubeDB

11/2019 – 06/2020

Sittme, Moscow, <https://sitt.me>

CTO

Sitt.me is a community-based babysitting service that has a mobile platform. We had a team of professionals, including a project manager, a designer, a quality assurance expert, and developers: backend, frontend, and mobile.

- I've designed and implemented some cool features like in-app notifications and video calls.
- I helped deploy 24 services in a private Kubernetes cluster for production and staging environments.
- I've automated the CI/CD process to allow the team to test and deploy faster.
- During my time here, I detected and solved some issues with our services.

- Additionally, I mentored both back-end and front-end developers.

Technology

- Golang, Bash, Ruby, ReactJS, SQL; PostgreSQL DB, Redis, Maria, RabbitMQ, Firebase; Jira, Confluence, GitLab
- Engineering: Kubernetes, Docker, GitLab CI, ELK, Helm

11/2018 – 05/2019

T-Bank, Moscow, <https://www.tbank.ru/>

Senior Software Developer

- I built and implemented a voice assistant CMS with Flask and PostgreSQL.
- Redesigned the low-latency API with Golang, Redis, PostgreSQL.
- I've refactored the text-to-speech API service using async gRPC Python library.
- Deployed services to Kubernetes cluster, automated CI/CD with TeamCity.
- Responsibilities include code reviews, interviewing, mentoring.

Technology

- Languages: Python, Golang, C++, SQL, bash
- Packages: gRPC, TensorFlow Serving, Flask, Gunicorn, NumPy, SQLAlchemy
- DB: PostgreSQL DB, Redis, MongoDB
- Tools: Docker, Kubernetes, Helm, Jira, Confluence, Bitbucket, TeamCity, PyCharm, Goland

05/2017 — 09/2018

Vzor Systems, LLC, Moscow

Lead Software Developer

- I have designed the architecture and developed a biometric identification software solution, including a GUI client, server and embedded components.
- I have led a team of two software developers in this project, hiring them and guiding them through the process.
- To optimize identity recognition, I have used classic image processing algorithms and CNN.
- I performed a technological proof test and prepared a report that complied with the NIST standards.
- At three Russian conferences, "All-over-IP," "SKUD," and "TB Security Technology," I presented prototypes of the bio-metric identification solutions.

Technology

- Python, C++, Qt, C, SQL; Git (GitLab); Eclipse IDE, Qt Creator
- OpenCV, Caffe, SciPy; SQLAlchemy; gRPC, MQTT; PostgreSQL; Ubuntu, MS Windows Server

03/2011 — 05/2016

Asoft, LLC, Moscow, <http://www.asoft.ru>

Software Developer

- I developed a client-server app that simulated the tech operation of train stations and handed it over to the client. Thanks to the solutions I implemented, the client successfully fulfilled the contract for upgrading the tracks at Syzran station 1.
- I designed and delivered a custom client-server system to the client, which helped them predict energy usage in a train section, among other things.
- During my time here, I gained experience on ongoing projects and picked up two projects that the lead programmer had left behind.
- I successfully delivered software and managed MySQL and Oracle databases.
- As part of a team, including a project manager, and 2 interns, we worked together to complete project goals.

Technology

- C++, SQL, HTML, XML, JavaScript; VSC CVS; Eclipse IDE, KDevelop, emacs
- Oracle DB, MySQL, in-house RDBMS + Web Server; bash, Fedora Linux

01/2009 — 02/2011

Khrunichev State Research and Production Space Center, Moscow, <http://www.khrunichev.ru/>

Software Engineer

- Developed 2 Windows desktop applications for satellite trajectory computations.
- C++, Borland C++ Builder

Education

Moscow State University after M. V. Lomonosov,

Bachelor of Science in Applied Mechanics, Moscow, Russia

- I presented a talk on my thesis at the Lomonosov Readings annual conference. The title of my thesis is "Altering the Trajectory of Hazardous Asteroids and Comets".
- I conducted calculations using MATLAB and Maple, and I also taught lab work on gyroscopes as part of my research.