

## Experience

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### Senior Software Engineer at ShredSpots

**Apr 2022 - Apr 2023**

- Team and I rewrote an existing iOS application using Flutter, which allowed us to launch the Android version almost free of charge.
- Implemented a cloud-based build and deployment system for applications, replacing manual developer work.
- Conducted a review of access rights to the Firebase database, significantly restricting client access rights to the bare minimum required.
- Configured triggers on Firebase lambda functions to control data changes on the server-side, preventing clients from editing shared collections without proper authorization.
- Implemented a mechanism for preloading spots on the map using geo-hashes, resulting in improved app performance and reduced startup time.
- Designed and implemented a separate REST API for handling user-generated videos, leveraging the power of the relational model for backend data querying.
- Secured API access using Firebase AppCheck, ensuring that only application users can make requests to the backend.
- Prepared a plan and documentation for migrating other entities from Firebase to a separate backend.

Technology Stack: Python, FastAPI, PostgreSQL, Google Cloud Run, Dart, Flutter, Firebase services

### Senior Backend Developer at X5 Retail

**Jun 2020 - Apr 2022**

Employee Internal Portal:

- Designed and implemented integrations between the portal and various company services to enhance employee convenience.
- Designed and implemented gamification features for the portal, such as achievements and points for actions performed on the portal.
- Optimized the performance of API methods to ensure a more responsive portal experience.

Technology Stack: Python, Django, PostgreSQL, Redis, Docker, OpenShift

Food.ru

- Led a small team in designing and launching a backend infrastructure from scratch, supporting 20 million monthly active users (MAU).
- Contributed to the development of each feature, from gathering client requirements to planning and implementing them with the team.

- Participated in the hiring process to expand the team.
- In addition to my responsibilities, I also provided coaching and mentoring to the team members, fostering their professional growth and development.

Technology Stack: Python, FastAPI, PostgreSQL, Redis, Docker, Kubernetes

### **Backend Developer at Practicum by Yandex**

**May 2019 - Jun 2020**

Trainers services:

- Implemented crucial trainers from scratch that were essential for the company's operations, such as a student code analysis, validation, and execution trainer, Jupyter Hub cluster, and a service for training neural networks on high-end accelerators.
- Introduced the use of web sockets instead of long polling for the trainers, resulting in improved platform responsiveness and student engagement.

Content Platform:

- Developed the platform to enhance the workflow for both authors and students:
- Migrated from Markdown to a custom markup language for creating flexible and interactive content blocks.
- Analyzed and optimized API response times.
- Refactored database queries and schema to improve performance.
- Participated in the ideation and refinement of tasks from clients, converting them into concrete sprint tasks for the development team.
- Acted as a mentor for new or inexperienced team members, minimizing onboarding challenges by updating the knowledge base, providing comprehensive descriptions of platform functionalities during the planning phase, creating checklists for new colleagues to obtain access, and facilitating a smooth integration into the team.
- Conducted interviews for prospective candidates.

Technology Stack: Python, Django, PostgreSQL, Redis, Ydb, Docker, Docker Swarm, Kubernetes

### **Python Backend developer at Improvado**

**Jul 2018 - May 2019**

Marketing Data Import Service:

- Conducted research and implemented numerous adapters for retrieving data from various channels, including REST API, SOAP, CSV, TSV, JSON, XLS from emails, storage systems, and other data delivery channels.
- Refactored the codebase, resulting in an accelerated adapter development process.
- Achieved 100% test coverage for the service.

Data Access Service:

- Fixed an access issue where clients could view the data schema of other clients without accessing the actual data.

- Improved and extensively tested the client account creation code, significantly reducing manual work to a single button click in the admin panel.

Technology Stack: Python, Django, PostgreSQL, Redis, Docker, Linux

## **Python Developer at VoiceBase, Inc.**

**Sep 2016 - Jun 2018**

Speech Recognition Engine:

- Implemented a data cleaning and preparation pipeline for training models, enabling the company to quickly add new data to the dataset.
- Assembled, configured, and launched a mini cluster for model training, allowing the company to reduce costs on cloud solutions and mitigate the risk of data leakage.
- Successfully applied model transfer learning from one language to another, enabling the company to quickly deploy models in new languages with minimal training data.

Technology Stack: Python, Tensorflow, Kaldi ASR, Docker, Linux, PostgreSQL

## **Education**

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**Tomsk University of Control Systems and  
Radioelectronics (TUSUR)**

**2015-2016**

Software Development, Retraining Program

**Tomsk University of Control Systems and  
Radioelectronics (TUSUR)**

**2010-2015**

Quantum Optics Engineering specialist