

# Andrey Turbov

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## Contact

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I'm a software and operations engineer with a few years of SRE expertise. Self-education is of the highest value for me, which I'm always striving. Not only because regular studies got me into the industry, but also because I appreciate scientific endeavour and enjoy exploring world of abstract ideas. Hence, I'm looking forward to further improve my skills in software development, architecture design and DevOps practices. The essential job-aspect for me is to acquire expertise in solving challenging problems using modern technologies and cutting edge approaches. My experience in an international environment enables me to get along with foreign co-workers and customers quickly.

## Employment

### Freelance

*Software Engineer*

Jul 2023 — Present

*Tbilisi*

- Developed initial platform prototype for automatic conversion/generation of *CMake* files with *Django/DRF*
- Implemented new platform features according to customer requirements regarding their build system improvements
- *Django/DRF/ReactJS* service for automated crypto infrastructure deployment to various cloud providers:
  - Implementation of new features and bug reduction via legacy code refactoring
  - Introduced TDD and existing code coverage with *pytest* + CI/CD pipelines configuration
  - Monitoring alerts configuration catching critical application issues such as stale deployments, queues overflow, etc.

### JettyCloud (RingCentral)

*Release Engineer*

Dec 2022 — Apr 2023

*Tbilisi*

- Design and maintain internal custom *Python* toolchain for release routine such as mass services deployment
- Building and decommission of instances depending on a business needs
- Carry out release preparation cycle including:
  - Deployment of the whole RC distributed system
  - Tracing and resolving issues which occurred during QA regression cycles
  - Bug reporting and discussion with developers on possible solutions

Apr 2022 — Dec 2022

*Site Reliability Engineer*

*Tbilisi*

- Deployment and configuration on production environments in a strict time frames
- Subsystems support handover from other teams with complex review and presentation for peers
- Tracing and resolving critical application issues in a complex production environment
- Tight communication with international customers, operations and development teams to achieve system reliability
- Deployment processes automation with *Python* scripts

### Teknavo (Bloomberg)

*DevOps Engineer*

Dec 2021 — Apr 2022

*St. Petersburg*

- Internal Bloomberg CI/CD infrastructure improvement to speed up build and release process
- Build and testing automation with *Python*, *CMake*, *GTest* and *pytest*
- *C++* codebase tests coverage and bugfixing

- Design new system architecture for *Python Django* RPA platform with UML
- Refactoring of a legacy *Django/DRF/Celery/Flask* backend according to new system design
- Transition from RPC (*RPyC*) protocol to plain REST API to simplify backend-agent communication
- Implemented multiprocessing *Python* RPA agent-side for easy bots management and concurrent execution
- *ReactJS* frontend development and improvements following strict company UI standards
- Introduced TDD practice for both frontend and backend:
  - Frontend unit-test configuration and coverage using *Jest* and *Enzyme*
  - Backend and agent unit-testing with *pytest*, *factory\_boy* for data mocking, *pytest-cov* for coverage metrics
  - Organized knowledge sharing sessions on how to properly unit-test components using *pytest*
  - Paired programming sessions with colleagues to help with TDD adoption

Jul 2018 — Jan 2020

*St. Petersburg**DevOps Engineer*

- Monthly presentations on international on-site meetings
- Support for international DEV, QA and SRE teams
- Orchestration solution design and development using *Puppet* and *Puppet Bolt*
- Migration of CI/CD pipelines from *Jenkins* to *GitLab CI*
- Implementation and maintainance of internal services and utilities such as:
  - *Django/DRF/ReactJS* dashboard web service for project environments
  - *Flask* service for generating delivery instructions for production OPS
  - *Python* CLI utility for complex application configuration management

**Education**

2014 — 2016

Saint Petersburg State University of Aerospace Instrumentation, Department of Computer Science

2013 — 2014

Peter the Great Saint-Petersburg Polytechnic University, Department of Physics and Astronomy

**Used Tools****Programming languages:** Python, C++(11/14/17), JavaScript (ES6), Elixir, Groovy**Frameworks:** Django, Django REST Framework (DRF), Flask, Celery, RPyC, pytest, ReactJS, Jest/Enzyme, GTest**Development utilities:** Git, Bash, core \*nix utilities, rpm, dpkg, Sphinx**Operating systems:** Linux (RHEL, Debian, Arch, Gentoo, Exherbo), Windows**Build systems and CI/CD:** Make, Ninja, CMake, Gitlab CI, Jenkins**Containers/Cloud/Virtualization:** Docker, k8s/Spinnaker, AWS, Vagrant, VirtualBox, VMware**Infrastructure orchestration:** Ansible, Puppet, Puppet Bolt, Terraform**Monitoring:** ELK stack, Grafana, Prometheus, Zabbix**Databases:** PostgreSQL, OracleDB, Amazon RDS**Other****Languages:** advanced English, native Russian**Achievements:** participated in student physics and astronomy conferences/competitions, completed [MIT GSL](#) program**Hobbies:** [programming](#), [Exherbo Linux](#) distribution maintainance, philosophy and humanity studies, digital art, spider keeping