

# Andrey Turbov

Software Engineer | DevOps | SRE | 6 years

## Contact

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Software and operations engineer with a several years of SRE expertise. I possess extensive experience across entire production lifecycle and understand wide range of issues regarding backend/frontend development, high-load infrastructure, QA, operations, incident management and customer perspectives. My experience in an international environment combined with fluent English enables me to get along with foreign co-workers and customers quickly. Self-education is of the highest value for me, which I am always striving for. I appreciate scientific endeavors and enjoy exploring world of abstract ideas. I aim to further develop my skills in software engineering, architecture design, DevOps practices and distributed systems. My primary career goal is to acquire expertise in technologically advanced domains with a focus on reliability and social impact such as finance, healthcare, telecommunications, automotive, education, hardware, OS development and Research & Development (R&D) departments.

## Employment

**C2C (Cmakify, GatewayFM)** Jul 2023 — Present  
*Software Engineer* *Tbilisi*

- Developed initial platform prototype for automatic conversion/generation of *CMake* files with *Django/DRF*
  - Optimized customer project's *Make* files for faster build process and maintenance load reduction
  - Integrated *CMake* files parser into *Django* application to enhance customer current build techniques
- *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
  - Setting up *ELK* for newly created environments
  - *AlertManager* configuration for catching critical application issues such as stale deployments, queues overflow, etc.

**JettyCloud (RingCentral)** Dec 2022 — Apr 2023  
*Release Engineer* *Tbilisi*

- Designed and managed internal custom *Python* toolchain for mass services releases
- Optimized existing subsystems and decommissioned redundant instances, reducing company operation costs by 15%
- Carry out release preparation cycle including:
  - Deployed *minor* (120-150 services) and *major* (more than 150 services) releases of RC distributed system
  - Traced and resolved issues occurred during QA regression cycles using *ELK* and *Zabbix*
  - Bug reporting and collaboration with developers on potential solutions and patches

*Site Reliability Engineer* Apr 2022 — Dec 2022 *Tbilisi*

- Delivery and configuration on high-load microservice production environment with over 30000 servers and instances
- Conducted subsystems support handover from other teams with detailed review and presentation for peers
- Traced and resolved service critical routing issues and telecommunication failures with further RCA using *ELK*
- Collaborated closely with international customers, operations and development teams to achieve 99.999% system reliability
- Deployment processes automation with *Python* toolset

**Teknavo (Bloomberg)** Dec 2021 — Apr 2022  
*DevOps Engineer* *St. Petersburg*

- Improved internal Bloomberg CI/CD infrastructure to accelerate build and release processes
- Build and unit/integration tests automation with *Python*, *CMake*, *GTest* and *pytest*
- Enhanced test coverage and resolved bugs in *C++* codebase

## T-Systems (Deutsche Telekom) Software Developer

Jan 2020 — Dec 2021  
St. Petersburg

- Design new system architecture for *Python Django* RPA platform with UML
- Setting up monitoring with *Grafana*, *Prometheus* and *ELK*
- 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

## DevOps Engineer

Jul 2018 — Jan 2020  
St. Petersburg

- Configured *Prometheus* and *ELK* for project monitoring from scratch
- Provided support to international Development, Quality Assurance, and Site Reliability Engineering teams throughout the software development process
- Orchestration solution design and development using *Puppet* and *Puppet Bolt* with twice as fast deployment speed
- Led the migration of CI/CD pipelines from *Jenkins* to *GitLab CI*
- Implemented internal services and utilities including:
  - *Django/DRF/ReactJS* dashboard web service for project environments
  - *Flask* service for production OPS delivery instructions and configuration handover
  - *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

**Frameworks:** Django, Django REST Framework (DRF), Flask, Celery, RPyC, NumPy, ReactJS

**Development utilities:** Git, Bash, core \*nix utilities, rpm, dpkg, Sphinx

**Operating systems:** Linux (RHEL, Debian, Arch, Gentoo, Exherbo, NixOS), Windows

**Build systems and CI/CD:** Make, Ninja, CMake, Gitlab CI, Github Actions, Jenkins

**Cloud and Virtualization:** Docker, k8s/Spinnaker, AWS, Vagrant, VirtualBox, VMware

**Infrastructure orchestration:** Ansible, Puppet, Puppet Bolt, Terraform

**Monitoring:** ELK stack, Grafana, Prometheus, Zabbix

**Databases and Message Brokers:** PostgreSQL, OracleDB, Amazon RDS, Apache Kafka, RabbitMQ, Redis

## Other

**Languages:** advanced English, native Russian

**Achievements:** participated in student physics and astronomy conferences/competitions, completed [MIT GSL](#) program on start-up creation from scratch and pitch for venture fund

**Hobbies:** [programming](#), [Exherbo Linux](#) distribution maintainance, philosophy and humanity studies, digital art, spider keeping