

Andrey Turbov

Software Engineer | DevOps | SRE | 7 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

EPAM Systems

Site Reliability Engineer

Apr 2025 — Present
Tbilisi

- Designed architecture for the high-load *Elastic Search* cluster from ground up
- Developed specification and enforced company-wide observability standards for logging, monitoring and alerting
- Built, maintained and optimized observability data pipeline infrastructure:
 - Support for 1000+ different services spread between 15 AWS accounts (*EC2*, *ECS*, *EKS*)
 - Total daily data throughput around *10-40 TB*
 - Lead services migration process from legacy sources
 - Release and maintainance of *AWS Lambda* extension to scrape data from custom functions
- Mentored team adoption of an industry grade development and incident management practices

C2C (Cmakify, GatewayFM)

Software Engineer

Jul 2023 — Apr 2025
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
 - Monitoring alerts configuration catching critical application issues such as stale deployments, queues overflow, etc.

JettyCloud (RingCentral)

Release Engineer

Dec 2022 — Apr 2023
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
 - Bug reporting and collaboration with developers on potential solutions and patches

Site Reliability Engineer

- 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
- Deployment processes automation with *Python* toolset

T-Systems (Deutsche Telekom) Software Developer

Jan 2020 — Dec 2021
St. Petersburg

- 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
- Implemented multiprocessing *Python* RPA agent-side for easy bots management and concurrent execution
- *ReactJS* frontend development and improvements following strict company UI standards

DevOps Engineer

Jul 2018 — Jan 2020
St. Petersburg

- 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
- 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, Guix), Windows

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

Cloud and Virtualization: Docker, k8s/Spinnaker, AWS (EC2, ECS, EKS, MSK, Lambda), Vagrant, VirtualBox, VMware

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

Monitoring: ELK, Vector, Grafana, Prometheus/Victoria Metrics, 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