Vasiliy Polyakov

Senior Software Engineer

Summary

- Software engineer (C++/Qt, Scala, Python) with over a decade of experience in enterprise services development.
- Development automation specialist with a vast CI/CD and DevOps expertise.
- Passionate about efficiency, performance, and in-depth solutions.
- Collaborated with distributed teams in different software development stages.
- Constantly improving skills with new technologies and instruments.

Experience

Dec 2021 – Sep 2022 **Lead Software Engineer (Scala)**, *M.Video–Eldorado*, Moscow, Russia, remote
- **Tech stack**: Scala, Akka, Lagom, Cassandra, Elastic Stack, SAP, GitLab CI, Kubernetes, Ubuntu.
- Analyzed requirements and implemented microservice architecture for ERP, HR, and business communications services.
- Designed and built microservice API for thousands of users with 1000 RPS.
- Planned and decomposed tasks with a distributed Scrum team of 20 specialists.
- Facilitated internal developers meetings to share ideas and knowledge.

__M.Video-Eldorado Group__ is Russia's leading e-commerce and consumer electronics retailer with gross merchandise value over $10 billion and is also one of the largest and most technologically advanced retailers with distributed services all across Russia.

Jan 2019 – Dec 2021 **Senior Software Engineer (C++)**, *Rostelecom IT*, Perm, Russia
- **Tech stack**: C++, Qt5, CEF, SQLite3, Oracle DB/Exadata, Tomcat, Nginx, Puppet, Ansible, Zabbix, GitLab CI, OpenShift, Scala, Gatling, Ubuntu.
- Developed event-driven payment service with millions of users and 10 000 RPS.
- Boosted service performance by 83% with redesigning event queues.
- Managed to decrease deployment time from days to minutes by implementing efficient automated CI/CD pipelines and development environments.
- Initiated migration to blue-green deployment with extensive load testing.
- Planned tasks and facilitated meetings with distributed agile team.
- Redesigned documentation and knowledge base structure, saved hours of searching.

__PJSC «Rostelecom»__ is Russia's largest integrated provider of digital services and solutions, with presence in all market segments and covering millions of households, governmental and private organizations. Rostelecom is an unquestionable leader on the market of telecommunications services for Russian public authorities and corporate users of all levels.

May 2018 – Dec 2018 **Research Engineer**, *Perm State University*, Perm, Russia
- **Tech stack**: C++, Fortran 90, CUDA, OpenMP, OpenMPI, OpenHPC, RHEL, Ganglia.
- Participated in research and development project for UEC-Aviadvigatel funded by Russian Foundation for Basic Research.
- Project result is a turbine engine computational aerodynamics model based on a proprietary numerical solver of Navier–Stokes equations.

__SC «UEC-Aviadvigatel»__ is a design bureau which develops gas turbine engines for aviation and aeroderivative IGTs and gensets. Member of United Engine Corporation (UEC).

Dec 2017 May 2018	**Software Engineer (C++)**, *Stream (MTS)*, Perm, Russia • **Tech stack**: C++, STL, Boost, CMake, GNU/Linux. • Developed in-house high performance service that allowed clients to commit payment transactions and view fiscal data. • Optimized event matching algorithms to decrease server load by 21% on average.

MTS is a Russia's digital ecosystem and largest mobile operator that provides a wide range of digital-first services to help enrich the modern 21st-century lifestyle. The company offers a full range of solutions for consumers and business customers across wireless and wireline connectivity; over-the-top, linear, and satellite television; digital-first banking and financial services; as well as unified communications, cloud computing and IoT.

Oct 2012 Dec 2017	**Chief of Laboratory and Research Engineer**, *Perm State University*, Perm, Russia • **Tech stack**: C++, Fortran90, OpenMP, OpenMPI CUDA, Hadoop, Perl, Ruby on Rails, Redmine, RHEL. • Researched and developed HPC applications (fluid mechanics, aerodynamics, linguistics). • Tasks, projects, and people management. • HPC clusters administration and maintenance. • Popularization of science: public lectures, science events and festivals.

Education

2013	**BS, Applied Mathematics and Informatics**, *Perm State University*, Perm, Russia

Skills

C++	STL, Boost, Qt
Scala	Cats, Lagom, Akka
Python	Django, Flask, Keras, asyncio, aiohttp
DB	MySQL, PostgreSQL, SQLite 3, Cassandra
DevOps	GitLab CI, Jenkins, Ansible, Puppet, Docker, Kubernetes, Terraform, Bash, AWK
Misc	Git, Jira, Confluence, Scrum, Kanban, Linux

Languages

Russian	Native speaker
English	Professional working proficiency (C1)

Interests & Hobbies

Popsci	popularization of science, public lectures, mentoring
FOSS	developing and supporting free and open-source projects
Activities	piano, guitar, hiking, speleology, scuba diving, snowboarding