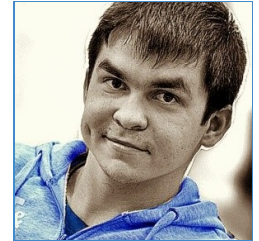# Nickolai Fedoseev

Software Development Engineer

Perm, Russia | mikifeynman@gmail.com

⌂ mr-fard4y.github.io/

Summary

Results-oriented developer with 6+ years of experience developing, testing, and maintaining enterprise software applications. A hard-working developer focused on building highly scalable applications with a special interest in APIs, microservices, containerized applications, and distributed systems.

Currently, I specialize in Python, Go, JS(NodeJS,React) and Rust to focus on real-world practices of building system architecture, provide guidance and recommendations for developing and maintaining successful solutions in enterprises and startups.

Experience

Python/JS Developer (Remote)   Oct 2019 - Present

PlayCanvas (AI Factory) - Sochi, Russia

Developed and maintained back-end services for mobile applications, automated process workflows, worked with different subtools and APIs for localization

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Key responsibilities:

- Designed and implemented services (REST, gRPC) for communication with internal/external services on Python, Go, Java;
- Automated internal business processes;
- Implemented and maintained services for deployment, localization and content delivery;
- Aggregated, collected, filtered different metrics for subsequent processing by analysts;

Technologies in use:

Python/(Flask, Pandas, Numpy), JS/(NodeJS, Webix), Go, Bash
OpenCV, TensorFlow, FFmpeg
Grafana, Looker, MongoDB
YouTrack/Jira, GitHub, Docker, k8s, TeamCity, Ansible, AWS (S3, EC2)

Back-End Developer (Remote)   Apr 2018 - Oct 2019

NexusTelecom (SysQual) - Moscow, Russia

Developed and maintained back-end services for aggregating and analyzing data of mobile flows

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Key responsibilities:

- Designed and implemented services (REST, gRPC) for communication with internal services on Python, Golang, etc;
- Continuous improvements and refactoring of existing codebases;

Key achievements:

- Wrote Ansible scripts to automatically update system components;
- Implemented and maintained ETL-service for collecting data from various sources (flow data, pcap, logs) and transformation using Tarantool, Spark;

Technologies in use:

Python/(Flask, Pyramid, AsyncIO, SQLAlchemy, Celery, Flower), GoLang/(gin, gorm, fasthttp, easyjson), Rust, JS/(NodeJS, ReactJS, Redux, WebSocket), Lua, Bash
Jupyter(Pandas, NumPy, Matplotlib, TensorFlow)
PostgreSQL, ClickHouse, Memcached, Redis, Tarantool, RabbitMQ, NATS, Kafka, Spark
Jira, GitLabCI, Docker, k8s, Ansible, Puppet, ELK, Zabbix, Jenkins

Core Competencies

- Software design
- System analysis
- Communication skills
- Result- and quality-orientation
- Perseverance

Skills

Programming languages

- Python (2.x, 3.x)
- Go
- JavaScript (ES 5-7)
- Rust
- Java
- Bash

Databases & Search Tools

- PostgreSQL, MySQL
- MongoDB
- Sphinx, Elasticsearch
- ClickHouse
- Redis, Memcached

DevOps

- Docker, Docker-Compose, k8s
- Ansible, Puppet
- Nginx
- Zabbix, Grafana
- GitLabCI

Other

- Git, Mercurial, TFS
- RabbitMQ, NATS, Kafka
- Swagger
- Jira, Trello, Asana

Spoken languages

- English   Intermediate (IELTS, B2)
- Komi   Native

Interests

- Electronics/Arduino
- IoT/Embedded sytems
- Drawing
- Guitar

Back-End Developer   Dec 2017 - May 2018

MTS (Stream LLC) - Moscow, Russia

Developed and maintained back-end services for web and mobile applications

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Key responsibilities:

- Designed and implemented services (REST, SOAP, gRPC) for communication with external services;
- Participated in project meetings with technical staff members, business analysts, external remote teams;
- Supervised functional and load testing, reviewed and analyzed test results;

Key achievements:

- Implemented the log monitoring system based on ELK and Zabbix to increase product quality and stability and reduce fault notification time;
- Implemented and supported the interactive web platform with WebRTC support for online learning;

Technologies in use:

Python, GoLang/(gin, gorm, fasthttp, easyjson), Rust, JS(NodeJS, WebSocket), Bash
Mobile(ReactNative, Android SDK, Java/Kotlin), Firebase
SQLLite, MySQL/(Percona), Memcached, Redis, RabbitMQ
Jira, Bitbucket, Docker, k8s, Ansible, ELK, Zabbix, WebRTC

Software Developer/DevOps Engineer   Jun 2015 - Dec 2017

ER-Telecom Holding - Perm, Russia

Developed and maintained various applications, services, scripts for validating configurations of network and server infrastructure, collecting data to monitoring systems, automating of working scenarios

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Key responsibilities:

- Developed and maintained internal tools and services on Golang, Python, Bash, Perl, PHP;
- Collaborated with other teams in the department to translate requirements into implementable user stories;
- Participated in project meetings with technical staff members, business analysts;
- Led part-time/remote developers;

Key achievements:

- Developed and integrated the configuration validator based on RegExp for different vendors of network equipment, reduced network downtime;
- Implemented the service for monitoring tv-broadcast by capturing screen frames, reduced fault notification time;
- Implemented and supported the service for collecting, classifying, cataloging the data flow (~50+ PB);
- Maintained and contributed to the open-source project NOC (https://getnoc.com/)

Technologies in use:

Python/(Django, DRF, Tornado, Celery, SQLAlchemy, Flower), GoLang, JS/(NodeJS, jQuery, ExtJS, AngularJS 1.x), Perl, Bash
PostgreSQL, MySQL, MongoDB, Memcached, Redis, RabbitMQ, NATS
Jira, GitLabCI, Docker, Ansible, Puppet, ELK

Software Developer (Part-time, Remote)   Apr 2017 - Nov 2017

Site Consulting - Sankt-Petersburg, Russia

Developed and maintained a web-application for aggregating and analyzing data from Asana, other various services/applications as MVP to validate ideas

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Key responsibilities:

- Designed and implemented back-end services (REST, SOAP) for communication with external services, such as Asana and Hubstaff;
- Implemented and maintained configurations for deploying and monitoring docker-containers on AWS;
- Mentored junior developers;

Key achievement:

- Improved product quality through code reviews, writing effective unit tests and collaborating with team members on implementing automation testing;
- Automated deploying pipelines using Jenkins to decrease release time;
- Implemented and supported multi-room web-chat as a social network for a fitness app;

Technologies in use:

Python/(Django, DRF, Celery, Flower), JS/(NodeJS, ReactJS, Redux, WebSocket), Bash
Mobile(ReactNative, Android SDK, Java/Kotlin), Firebase
SQLLite, PostgreSQL, RabbitMQ
Asana, Docker, Ansible, AWS/(EC2, S3, SQS, SES, RDS)

Back-End Developer (Part-time, Remote)   Jan 2017 - May 2017
FinIT- Moscow, Russia

Developed and maintained a scoring system and other services for providing microloans

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Key responsibilities:

- Designed and developed services for separating a monolithic application into independent microservices;
- Implemented and maintained configurations for deploying and monitoring docker-containers using OpenShift;
- Aggregated, collected, filtered different metrics for subsequent processing by analysts;

Key achievements:

- Migrated data from MySQL to PostgreSQL, reducing the server loading and query execution time;
- Implemented a separated service to communicate with external services (NCB, Equifax, etc) to improve the capacity of tasks queue;

Technologies in use:

Python/(Django, Flask, SQLAlchemy, Celery, Flower), GoLang, JS/(ReactJS, Redux, NodeJS), Bash
Jupyter(Pandas, NumPy, Matplotlib)
PostgreSQL, MySQL, RabbitMQ
Jira, GitLabCI, Docker, OpenShift, ELK

Software Developer   Jun 2012 - Jun 2015
JSC PROGNOZ - Perm, Russia

Developed and maintained a desktop BI-applications based on PrognozPlatform and different Add-Ins for MS Word/Excel based on .NET for IMF (International Monetary Fund) and EC (European Comission)

Key responsibilities:

- Implemented, released and delivered new features following by SRS 2-3 time per year;
- Supported programming changes during quality assurance, user acceptance testing, and post-implementation;
- Supervised auto- and regression testing, reviewed and analyzed test results;

Key achievements:

- Developed and integrated a testing system that covered of the application code, boosted quality and stability;
- Rebuilt the report builder submodule from system to custom components that reduced the delivery time of modifications from 2-3 days to 1-3 hours;

Technologies in use: C#, .NET, PrognozPlatform 5/7/8; MS SQL (2008-R2/2012); TFS

Education

Specialist (engineer's degree) in Computer Science, 4.7   2009 - 2014

Perm National Research Polytechnic University (PNRPU), Perm, Russia

Disciplines: Data sctructures, Algorithms, Graph theory, Object oriented design and programming, Databases, System programming, Computer systems and networks, Concurrent computing, Probability theory and statistics, Mathematical modeling, Mathematical physics etc.
Programming languages: C/C++, Python, PHP, Prolog, Haskell, Java, C#, etc
Activities: Competitive math and programming