

Mikhail Kalashnikov

Software Engineer

Highlights

Experience: 7+ years of industry experience

Languages/Frameworks: JavaScript/React/Node, Python, C/C++

Auxiliary Languages: Objective C, Swift, Java, Golang, Erlang, x86/ARM Asm, bash

Auxiliary Technologies: SQL/NoSQL, AWS/GCP, Docker, k8s,

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Experience

- **Twyla GmbH**

Software Engineer

Berlin, DE

September 2018 – April 2019

Development of SaaS, conversational design platform in a machine learning/NLP startup.

- Tech: JavaScript/React/Redux, Python/GraphQL, Firebase/GCP/Docker/k8s.

- **Self Employed / Consultancy**

Software Engineer

Saint Petersburg, RU

August 2017 – July 2018

Development of financial project for private customers. I have been delivering commercially successful client-side and server-side solutions for data aggregation and analysis with focus on responsiveness, security and high availability.

- Writing of day-trading automation solutions for financial markets
- Development of distributed architecture for decision making systems
- Stack: JavaScript, Node/React/MongoDB, Python/PostgreSQL

- **Recurse Center**

Participant

New York, US

February 2017 – June 2017

I participated in spring batch of self-directed, community-driven educational retreat for programmers. My goals were to improve my communication skills and to explore the diversity of technologies outside of embedded field.

- Taking part in collaborative learning activities, attending workshops, giving talks and prototyping
- Hacking into functional programming, machine learning, blockchain and many others
- Tech: Python/Flask, SQL/NoSQL, JavaScript/Node, Swift, Go, Algorithms

- **Samsung R&D Center**

Software Engineer

Moscow, RU

August 2013 – December 2016

As a member of the secure kernel project I took part in development of feature-rich secure execution environment for ARM based CPUs. I was involved in design and development of OS components including memory management, signal handling, timers, interrupt subsystem, hardware abstraction layer and the others.

- Writing low-level software solutions for commercial use in latest mobile devices for the global market
- Developed access control, user-space drivers and peripheral controllers support (DMA, SPI, I2C)
- Tech: C, Asm, ARMv6/ARMv7, Linux Kernel, Tizen, Ida Pro, Trace 32, ObjC/Swift

- **MERA Networks**
Software Engineer

Nizhny Novgorod, RU
July 2011 – August 2013

Maintenance and development of the wireless connectivity platform in scope of cutting-edge networking solution used and developed by Ericsson. I've been responsible for routing, distributed processing, and RTOS sub-projects.

- Solving problems with network protocols, routing, memory leaks and availability.
 - Feature development including changes in VxWorks/Linux kernel and third-party software.
 - Tech: C/C++, Erlang, bash, VxWorks, ClearCase/ClearQuest, TCP/IP, SS7/MTP/SCTP
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Education

- **Lobachevsky State University of Nizhny Novgorod**
Faculty of computational mathematics and cybernetics., M.Sc/B.Sc+ (5 years)

Nizhny Novgorod, RU
2008 – 2013

- Research topic: "Sub-quadratic GCD algorithms of computer algebra"
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Summary

A Software Engineer with versatile skill set and expertise in development of complex software and hardware solutions. I enjoy working on challenging problems with focus on clean, efficient and elegant solutions, enforcing the best development practices in my workflow. My area of experience includes web development, kernel development, operating systems, algorithms and reverse engineering.