

Mikhail Kalashnikov

Software Engineer

Highlights

Experience: 6+ years of wide-range industry experience

Languages/Frameworks: JavaScript/Node/Express/React/Redux, Python, Golang, C/C++

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

Auxiliary Technologies: MongoDB/PostgreSQL, Gulp/Webpack/Babel/Jest, AWS/GCP, Docker

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Experience

- **Self Employed / Consultancy**

Software Engineer

Saint Petersburg, RU

August 2017 – July 2018

Development of financial services; client-side and server-side business solutions for private customers. I have been delivering tooling and 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.
- Software stack: JavaScript, Node, Express, React, Python, MongoDB, PostgreSQL.

- **Recurse Center**

Participant

New York, US

February 2017 – June 2017

I have 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.

- Participating in collaborative learning activities, attending workshops, giving talks and creating projects
- Hacking into functional programming, machine learning, cryptocurrencies and many others
- Developed a casual social network for internal use by Recurse community

- **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.

As a member of Tizen project team I have been taking part in development of mobile virtualization environment for Tizen OS. Custom software stack have been developed and maintained in order to support code execution from other platforms.

- 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)
- Holder of multiple awards for great contributions to the project based on work results

- **MERA Networks**
Software Engineer

Nizhny Novgorod, RU
July 2011 – August 2013

Project maintenance of the wireless connectivity platform in scope of cutting-edge networking solution, outsourced for Ericsson. I have been responsible for three technical areas: Link&Routing, Distributed Processing Environment and RTOS.

- Solving SW/HW problems with network protocols, routing, memory leaks, availability, etc.
 - Resolving features including changes in VxWorks/Linux kernel and third-party software
 - Ensuring technical support to the customers worldwide, including AT&T, Verizon, Sprint, etc.
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Education

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

Nizhny Novgorod, RU
2008 – 2013

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

- **Social Chrysalis**
Social network to encourage social activities at RC.

<https://github.com/mikkqu/rc-chrysalis>

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.