

Mikhail Kalashnikov

Software Engineer

Highlights

Experience: 8+ years of industry experience

Languages: C++, Python

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Experience

- **QuantRes** **Nassau, BS**
Software Engineer *March 2021 – Current*

Development and support of various software components (research, simulation, visualization) for the statistical modeling of market processes in a private investment firm.

- Tech: C++/Qt/MFC, C#, Perl

- **N/A** –
Sabbatical *February 2020 – February 2021*

Taking time to self-study, re-evaluating my life direction and preparing for a career shift.

- Studying C++, algorithms, calculus, data engineering, finance and programming techniques
- Working on my side-projects, pursuing what once was fun in computing

- **Twyla GmbH** **Berlin, DE**
Software Engineer *September 2018 – October 2019*

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

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

- **Self Employed** **Saint Petersburg, RU**
Software Engineer *August 2017 – July 2018*

I have been delivering financial software for data aggregation and market automatization for private customers. Full-stack development of distributed automated systems for deploying strategies in financial markets.

- Tech: Python/PostgreSQL, JavaScript/React/Node

- **Recurse Center** **New York, US**
Participant *March 2017 – June 2017*

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

- Taking part in collaborative learning activities, attending workshops, giving talks and prototyping
- Studying functional programming, machine learning, blockchain, algorithms and more
- Developed a functional social network prototype to be used inside a 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 the development of a feature-rich secure execution environment for ARM-based CPUs. I was involved in the design and development of performance-critical OS components such as memory management, signal handling, timers, interrupts and others.

- Writing low-level software solutions for the latest mobile devices in the global market
- Developed access control, user-space drivers and peripheral controllers support (DMA, SPI, I2C)
- Tech: C, Asm, ARMv6/ARMv7, Linux Kernel, Tizen OS, Ida Pro, Trace32, ObjC/Swift

- **MERA Networks**

Software Engineer

Nizhny Novgorod, RU

July 2011 – August 2013

Maintenance and development of the wireless connectivity platform within a cutting-edge networking product marketed by Ericsson. I have been responsible for routing, distributed processing environment, 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, TCP/IP, SS7/MTP/SCTP

Education

- **Lobachevsky State University of Nizhny Novgorod**

Faculty of computational mathematics and cybernetics., M.Sc (5 years)

Nizhny Novgorod, RU

2008 – 2013

- Research topic: "Sub-quadratic GCD algorithms of computer algebra"
- Winner of state school olympics in math and economics