

# Sergey Serebryakov

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Specialization      Software Engineer

Status                      United States permanent resident, Russian citizen

Skills and interests      **Professional:** backend engineering, algorithmic bottlenecks, performance optimizations, high-load low-latency scalable fault-tolerant architectures, distributed systems, functional programming, code quality, systems design  
**Recreational:** frontend engineering, computer security, machine learning, computer vision

**Programming languages (approximately in the order of preference):**

**Professional:** Scala, Go, Java, Python, JavaScript, C++

**Recreational:** Haskell, TypeScript, Elm, Erlang, PHP, Perl

**Other technologies and tools:**

IntelliJ IDEA, Git, bash, Docker, Jenkins, SQL, Spark, AWS, HTML, CSS, LaTeX

**Human languages:**

Russian (native), English (TOEFL 110/120), intermediate German, basic French

## Work

**Tesla, Inc. (Palo Alto, California, US)**

*Senior Software Engineer, since Feb 2017*

- Autopilot Team: maps, cloud and data infrastructure, AI tooling

**Twitter, Inc. (San Francisco, California, US)**

*Software Engineer II, Sep 2014 – Feb 2017*

- Search Infrastructure: maintaining systems powering Twitter Search
- Build Infrastructure: improving compilation performance

**Rocket Fuel, Inc. (Redwood City, California, US)**

*Rocket Scientist, Oct 2013 – Sep 2014*

- Serving Infrastructure: maintaining and improving distributed RTB ad system

**JetBrains – IntelliJ Labs Co., Ltd. (St. Petersburg, Russia)**

*Software Engineer, Nov 2012 – Aug 2013*

- Research on reusable compiler cache: formal model and prototype implementation

**Facebook, Inc. (Menlo Park, California, US)**

*Software Engineer Intern, Jun 2012 – Aug 2012*

- Versatile distributed task mapper: design & implementation of monitoring module

**Google, Inc. (Tokyo, Japan)**

*Software Engineer Intern, Aug 2011 – Oct 2011*

- Mobile Local Details Dialog (detailed info about local search results): design and implementation of the frontend

### **Google, Inc. (St. Petersburg, Russia)**

*Software Engineer in Test Intern, Oct 2010 – Apr 2011*

- Buggy Webpage Reduction: research, design and implementation as a Google Chrome extension

### **OpenWay Service, Ltd. (St. Petersburg, Russia)**

*Summer Intern, Jul 2010 – Aug 2010*

- Development of concept and prototype of the web-banking module

## Education

**St. Petersburg State University**, Department of Mathematics and Mechanics

*Specialist in Software Engineering (≈ US Master's degree), Sep 2008 – Jun 2013*

Graduated with honors (GPA: 4.9/5.0)

## Research

**Formal Methods in Compilers: Build technique with aggressive output reuse** (Java)

Graduate paper (advisor: Dmitry Boulytchev), 2012–2013

**3D Algorithms in Medicine: Constructing 3D model of a human head from anatomical landmarks** (MATLAB)

Term paper (advisor: Alexander Petrov), 2011–2012

**Computer Vision: Reconstructing moving object position from noisy video observations** (C++, OpenCV)

Term paper (advisor: Alexander Vakhitov), 2010–2011

## Schools

- Microsoft Research ALMADA School, Aug 2013
- Joint Advanced Student School, Mar 2012
- Computer Science Center, Data Mining branch, 2011
- International competitive programming training camps, 2006-2010
- Student school “Modern know-how of software product”, Oct 2009
- Summer School on Informatics, 2006 and 2007

## Awards

- Best student of Microsoft Research ALMADA School, 2013
- Winner of Open International Internet Competition on Informatics, 2010-2011
- Winner of Open Collegiate Programming Contest of Southern FU, 2010
- Prize of ACM ICPC Quarterfinals, 2009
- Prizes of the All-Siberian Collegiate Programming Contest, 2008-2009
- Winner of International Student Programming School of Saratov SU, 2009
- Recipient of Excellence Scholarship of Euler Foundation, 2009
- Second prize of the All-Russian School Informatics Competition, 2008
- Finalist of TopCoder High School programming competition, 2008
- Winner of Open School Cybernetics Competition, 2008
- Third prize of the All-Russian School Informatics Competition, 2007