

Paul Shved

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EXPERIENCE

Google, Inc

Senior Software Engineer, Tech Lead
Software Engineer

Dec 2016 – Current
Oct 2012 – Dec 2016

Currently

- ◆ **SWE on Search Ads machine learning infrastructure.**
- ◆ Built a new large-scale hosted ML data processing framework from scratch.
- ◆ Shipped a data processing system that powers 3 existing giant-scale ML pipelines in Search Ads.

I've been successfully using math to aid coding (designed new fast algorithms, replaced sophisticated code with probabilistic tests, and even got to use the [Fundamental Theorem of Calculus](#) once).

Previously

- ◆ **Have been the Tech Lead of a 7-engineer team at [Google App Engine](#)** cloud product;
- ◆ Designed and launched new infrastructure that powers two new Cloud products, migrated the existing stack onto it with no downtime.
- ◆ Evolved the system as an engineer and then as the tech lead through its N orders of magnitude growth.
- ◆ **At [Knowledge Graph Indexing team](#)**, I designed and delivered a 0% loss giant-scale data distribution service, which enabled 2 new projects.

ROSA, Ltd

Senior Software Engineer

Sep 2011 – Sep 2012

- ◆ Led the Productivity effort of the ROSA Linux enterprise solution.

Institute for System Programming

Graduate Research Assistant

Sep 2007 – Sep 2011

- ◆ Increased performance of a [Static Analysis tool](#) of C programs by a factor of 30;
- ◆ Developed a small on-premises distributed cloud to run our research tools at a large scale.
- ◆ Published a [paper on C++ binary compatibility](#), which is referenced from the GCC manual.

EDUCATION

Stanford University

Artificial Intelligence Graduate Certificate ([link](#))

2018 – current

- ◆ Average GPA: 3.33. Estimated completion date: Fall 2019.
- ◆ Course projects: Unsupervised feature learning from Wine Reviews, Visual Emotion Recognition ("[Smiling Robot](#)"), Training RNN as an Ad Copywriter.

Moscow Institute of Physics and Technology

M.S. Computer Science

2008 – 2010

B.S. Applied Mathematics and Physics

2004 – 2008

SKILLS

- ◆ Proven ability to successfully lead medium-sized teams, set their direction, prioritize tasks, and run development processes (Scrum, Kanban);
- ◆ Certified basic machine learning skills: Deep Learning, NLP, Visual Recognition, etc.
- ◆ Coding polyglot: I'm proficient with C++, Go, Python, Ruby, Perl, C, Bash, SQL, OCaml;

PERSONAL ACCOMPLISHMENTS

- ◆ [Made](#) an SF Muni Sign using Raspberry Pi and Arduino.
- ◆ Achieved Category 4 in amateur road bicycle racing;
- ◆ Have been running a programming blog at <http://coldattic.info/> averaging 3000 visits a month;
- ◆ Authored and co-authored 2 journal papers and 5 conference publications; ~100 citations [[Scholar](#)].