

Max Kuznetsov

Backend Software Engineer (**Golang, Python**) · Computer Science Teacher · Ex-Compiler Engineer
Moscow, Russia | maks.kuznetsov@gmail.com | github.com/mkuznets | linkedin.com/in/mkuznets

Experience

Software Engineer, Jan 2017 – Dec 2019

Yandex (Moscow)

- Designed, built, and maintained backend services for business and software development infrastructure (**REST API, Python, PostgreSQL, MongoDB**).
- Improved performance, stability, and observability of large-scale distributed systems.
- Collaborate with other teams to establish and improve integrations across software development tools and services.

Software Engineer Intern, Jun 2011 – Jun 2013

Intel Corporation (Moscow)

- Contributed to AVX-512 support in GCC (**C, x86 assembly**); the patches have been [accepted to GCC 4.9](#) in 2014.
- Implemented an AVX-512 specific optimisation in GCC resulted in 1% improvement on SPECfp benchmark.

Teaching

Introduction to Algorithms, Jan 2017 – Jun 2020

Higher School of Economics (Moscow)

- Gave lectures and seminars; designed homework assignments; conducted exams.
- Built an [online platform](#) (**Golang**) with auto-graded programming assignments for students.

Computer Architecture, Oct 2015 – May 2016

University of Hertfordshire (Hatfield, UK)

- Gave supplemental lectures; designed homework assignments.

Education

University of Hertfordshire (UK), Jan 2014 – Jul 2016

MSc by Research, Computer Science.

- Thesis: *[Data-Driven Self-Tuning in a Coordination Programming Language](#)*.

Moscow Institute of Physics and Technology, Sep 2009 – Feb 2014

BSc, Applied Mathematics and Physics.

- Thesis: *[On Element-Wise Predicates Support in GCC Autovectorisation](#)*.