

# Max Kuznetsov

Backend Software Engineer (**Golang**, **Python**) · Computer Science Teacher · Former Compiler Engineer (**GCC**, **x86**)

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## Experience

**Software Engineer**, Jan 2017 – Dec 2019

*Yandex (Moscow)*

- Created an internal service for automating procurement workflows (**Python**, **Django**, **PostgreSQL**).
- Maintained and contributed to an internal distributed batch-processing system (**Python**, **MongoDB**, **LXC**).

**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.
- Created an [online platform](#) (**Golang**) for autograded programming assignments.

**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](#)*.