



Anton Tugaenko

Software Engineer with a Background in Physics

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🌐 Moscow, Russia

Me

I've been a physicist for eleven years and then switched to software engineering.

Experience

Tutor @ [Yandex.Practicum](https://yandex.ru/practicum/) (bootcamp), mentors' team

(since December 2021)

- Growing students from zero to market-fit backend developers

Stack: Python, Django, SQLite, PostgreSQL, NGINX, Docker etc.

Yandex

Software Engineer @ [Positive Technologies](https://positive-technologies.com/) (infosecurity solutions), web application firewall backend team

(since January 2021)

- Developed features called 'user rules' and 'black/white lists'
- Speeded up several slow handlers up to 10 times by profiling, refactoring and query optimizing

Stack: Python, aiohttp, PostgreSQL, Rabbit MQ, NGINX, Kubernetes etc.



Software Engineer @ [Yandex.Taxi](https://yandex.ru/taxi/) (online ride-sharing service), b2b backend team

(July 2018 – January 2021)

- Produced a lot of typical backend business-related tasks including:
- Took essential part in [business-account release](#)
- Prettified customer connection processes, developed a drastically simplified process for a new clients' registration. Ten times less fields to fill → higher conversion

Stack: Python, aiohttp, MongoDB, PostgreSQL etc.

Yandex

Junior Software Engineer @ [Iponweb](https://iponweb.com/) (ad-tech company), main server team

(October 2016 – July 2018)

- Designed [Video Ad Serving Template](#) library (Lua)
- Refined and speed-up native ads library by performing $O(n \log n)$ match instead of $O(n^2)$
- Lead a project of reworking of all server-side Lua code to get rid of [global scope pollution](#)

Stack: Lua, Perl, MongoDB etc.

IPONWEB

Self-Educator @ home

(July 2016 – October 2016)

- Udacity, Coursera, Codecademy, Google for developers etc. Prepared myself for a career pivot

Lead Engineer Physicist / Product Owner @ [Inkram](https://inkram.com/) (gas analyzers developer), R&D dept

(February 2011 – June 2016)

- Managed a team of engineers and workers. Supervised the development of complex technical devices, including one of the company's main product lines
- Led several industry-related research projects. Adapted prototypes for mass production

ИHKPAM

Engineer Physicist @ [MEPhI](https://www.mephi.ru/) (National Research Nuclear University), laser physics lab

(May 2005 – February 2011)

- Scientific work. Research, papers, conferences and so on. Mentored students
- Played a key role in development of explosives gas analyzer based on [FAIMS](#) and laser ionization



Education and Scientific Work

- PhD in Laser Physics | June 2010 | National Research Nuclear University "MEPhI"
- Masters in Solid State Physics | February 2006 | National Research Nuclear University "MEPhI"
- 17 programming courses [completed](#) on Coursera, Udacity, etc. | 2015 - 2016
- 5 patents and 15 scientific publications (all about physics and technology. | before 2015



From Physics to Software Engineering