

Konstantin Tolstikhin

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EDUCATION

IRKUTSK STATE TECHNICAL UNIVERSITY

Jun 2008 | Irkutsk, Russia
<https://www.istu.edu>
Dipl.-Ing. (5-year degree, equiv. MSc)
Robots and Robotic Systems

MOOC

<https://www.edx.org>
Artificial Intelligence • Scalable Machine Learning • Autonomous Mobile Robots • Autonomous Navigation for Flying Robots

LINKS

📁 [GitHub](#) 📖 [stackoverflow](#)

SKILLS

Programming

Python & a tiny bit of Go

Web Development & Deployment

FastAPI, Flask, Gunicorn, uWSGI, MySQL, PostgreSQL, MongoDB, manticoresearch, Celery, Redis, RabbitMQ, Kafka, NGINX, Træfik, Docker Compose & Swarm, gRPC, Twirp, GitLab CI/CD, proxmox

Computer Vision & Machine Learning

Keras, scikit-learn, scikit-image, hyperopt, OpenCV, Pillow, NumPy, SciPy, pandas, gensim, NLTK

Desktop Applications

PyQt/PySide, Tkinter

Cloud Services

AWS EC2 & S3, Microsoft Azure, Google App Engine

OS & Environment

GNU/Linux, Git, Vim, a cup of tea ☕

Languages

Russian (native)
English (not bad)
German (could be better)

EMPLOYMENT

VIZORLABS | BACKEND DEVELOPER

Dec 2023 - Present | St. Petersburg, Russia
<https://vizorlabs.ru>

- Design and development of REST & gRPC services.

LECLICK | BACKEND DEVELOPER

May 2022 - Sep 2023 | Batumi, Georgia
<https://www.leclick.ru>

- Designed and developed from the ground up a backend for a call center web application.
- Set up and maintained a GitLab CI/CD pipeline for the development, testing, and production environments of the project.
- Made the app stack observable by using Prometheus & Grafana.
- Implemented REST API integration with third-party services like *MANGO OFFICE*, *Kaiten*, and *mindbox* used by the application.

TECHNICAL UNIVERSITY OF BERLIN | FULL STACK DEVELOPER

Jul 2020 - Feb 2021 | Berlin, Germany
<https://www.tu.berlin>

- Worked on an *open-source INSYSTED platform* for serious games.
- Developed front- and backend of the platform.
- Developed and tested game core algorithms.

ADJUST GMBH | BACKEND DEVELOPER

Jan 2020 - May 2020 | Berlin, Germany
<https://adjust.com>

- Developed and maintained REST API services.

STARTUP IN RETAIL BUSINESS AUTOMATION | SOFTWARE DEVELOPER

Nov 2018 - Dec 2019 | Irkutsk, Russia

- Was responsible for R&D of computer vision algorithms.
- Developed and deployed REST API servers.
- Deployed and managed a GitLab CI/CD pipeline.
- Developed and tuned PID controllers for hardware drivers.

INFOTEKH, OOO | SOFTWARE DEVELOPER

Aug 2017 - Nov 2018 | Irkutsk, Russia
<https://www.ed2inteh.ru>

- Developed from the ground up an iOS application **ed2watcher** and maintained it up to 1.6 version. Also, actively participated in the development of a backend side of the project and remarkably reduced a deployment hassle by moving the entire infrastructure to the Docker platform.
- Worked on desktop and web applications used for document exchange with the Federal Custom Service in Russia.
- Involved in the design and deployment of the company's website.

RESEARCH

UNIVERSITY OF KASSEL, INSTITUTE OF MATERIALS ENGINEERING

Jun 2009 - Dec 2013 | Kassel, Germany

Invented a stable numerical approach to evaluating residual stresses in thin films measured by a grazing incidence X-Ray diffraction.

PUBLICATIONS

Tolstikhin, K. and Scholtes, B. (2016) An approach to solving an ill-posed inverse problem of residual stress depth profiling in thin films and compact solid materials, *J. Appl. Cryst.*, Vol. 49, pp. 1141–1147.