

# Konstantin Tolstikhin

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Batumi, Georgia

https://konstantin.projectview.xyz

## 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

Skype LinkedIn GitHub

stackoverflow

## SKILLS

### Programming

Python (proficient), C#, Java, Swift,

MATLAB, PHP, JavaScript, SQL, Bash

### Web Development & Deployment

Vue.js, Flask, FastAPI, Tornado, uWSGI,

Gunicorn, Supervisor, MySQL,

PostgreSQL, SQLAlchemy, MongoDB,

MongoEngine, Celery, Redis, NGINX,

Traefik, TensorFlow Serving, Ansible,

Docker, proxmox, GitLab CI/CD

### Computer Vision & Machine Learning

Keras, scikit-learn, scikit-image,

hyperopt, OpenCV, Pillow, NumPy,

SciPy, pandas, gensim, NLTK, Tesseract

### Desktop Applications

PyQt/PySide, Tkinter

### Cloud Services

AWS EC2 & S3, Microsoft Azure,

Google App Engine

### Environment

GNU/Linux, i3, Git, Vim,

a cup of tea ☕

### Languages

Russian (native)

English (not bad)

German (could be better)

## EMPLOYMENT

### LECLICK | BACKEND DEVELOPER

May 2022 - Present | Batumi, Georgia

<https://www.leclick.ru>

- Designed and developed from the ground up a backend for a call center webapp.
- Implemented REST API integration with third-party services like MANGO OFFICE, Kaiten, and mindbox used in the webapp.
- Set up and maintained GitLab CI/CD pipelines in project back- and frontend repos for the development, testing, and production environments.

### 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

<http://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.