

# Ivan Zolin

Software developer, Data Scientist

I have 8 months of commercial work as a software developer, data analyst and developer of machine learning methods. In particular, I have experience working in startups, in which I worked as an NLP developer, a Full stack developer, and a Tech Lead. I am proficient in basic mathematical sciences, Algorithms and Data structures, as well as programming languages: Python, C/C++, JavaScript.

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## WORK EXPERIENCE

### Laboratory technician

Laboratory of Molecular Neurodegeneration at SPbSTU

07/2023 - Present Saint-Petersburg, Russia  
Research and development in the fields of immuno- and biotechnology, gene therapy.

- Development of web interface for interacting with the API of PSF(methods to improve three-dimensional images from confocal microscopy using neural networks) applications.
- Development of automatic marking of spheres in the image to obtain an averaged sphere.

Contact : Ekaterina Pchitskaya - [katrin.pchitskaya@gmail.com](mailto:katrin.pchitskaya@gmail.com)

### Техлид, Разработчик ПО Partner Finder (startup)

02/2023 - 06/2023 Saint-Petersburg, Russia

- Creating a search engine for business offers (sklearn, nltk). Creating a recommendation system interface, combining it with other recommendations based on user information.
- Scraping the site - getting test data for training (ads and users) in json.
- Development of the Ads component, working with the profile page(editor) on the frontend.

Contact : Egor Marin - [egor.marin2017@yandex.ru](mailto:egor.marin2017@yandex.ru)

### Fullstack developer Interactiver (startup)

11/2022 - 12/2022 Saint-Petersburg, Russia

Builder for creating interactive educational tasks. LinkedIn: <https://www.linkedin.com/company/interactiver/>

- Make upload files (the current HTML page) to create personalized jobs based on them.
- Learn about deploying the app on Heroku.

Contact : Viktor Katsman - [vikto9494@gmail.com](mailto:vikto9494@gmail.com)

## EDUCATION

### Bachelor's Degree in Applied Mathematics and Computer Science

Peter the Great St. Petersburg Polytechnic University (SPbSTU)

08/2020 - Present

Saint-Petersburg, Russia

## SKILLS

Python

C/C++

JavaScript

pandas

numpy

Algorithms and Data structures

sklearn

Docker

matplotlib

ReactJS

Django

BeautifulSoup

aiogram

Java

LaTeX

Git

Statistics

## PERSONAL PROJECTS

Web service for constructing PSF data of confocal microscopes with automatic ML segmentation of "spheres" in the image (04/2023 - Present)

- Tools: Computer Vision, ML, REST API, Python, Django, JavaScript, ReactJS, Docker, Redis, Nginx, Celery, Flower.
- The technology has received approval from SPbSTU for development funding.
- Task 1: Develop a web interface for interacting with the backend of PSF applications.
- Task 2: Implement automatic marking of spheres in the image to obtain an averaged sphere (in the process of Bead extraction).

Maximization raft area of a given shape when the river turns the river by 90 degrees (course work) (04/2023 - 05/2023)

- Tools: Python, pygame, numpy, LaTeX.
- GitHub: <https://github.com/IMZolin/maximization-raft-area>
- The shape of the raft: a rectangle with two equal isosceles triangles on two opposite sides.

ToDo List Telegram Bot (02/2023 - 04/2023)

- Tools: Python, aiogram, pwee, SQL, PostgreSQL, Docker.
- GitHub: <https://github.com/IMZolin/Todolist-Telegram-bot>
- Telegram bot, able to create, edit, delete, view to-do tasks, view completed tasks. The task consists of a description, date, time, frequency, attachments (files).

## CERTIFICATES

Java. Basic course (08/2022 - 09/2022)

<https://stepik.org/cert/1659594>

Development of Android applications on Kotlin (09/2022 - 10/2022)

<https://stepik.org/cert/1728735>

## LANGUAGES

Russian

Native or Bilingual Proficiency

English

B1 (Intermediate)