

Ivan Zolin

Software developer, Data Scientist

I have experience 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

Tech Lead, Software developer

Partner Finder (стартап)

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

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

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

matplotlib

sklearn

Algorithms and Data structures

Linux

Statistics

Docker

ReactJS

Django

BeautifulSoup

aiogram

Java

LaTEX

Git

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 (+visualization, 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, peewee, 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>

Introduction to Linux (08/2023 - 09/2023)

<https://stepik.org/cert/2175708>

LANGUAGES

Russian

Native or Bilingual Proficiency

English

B1 (Intermediate)