

Pittsburgh, PA
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Alex Zharichenko

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Education

Pittsburgh, PA

University of Pittsburgh

August 2017 | April 2021

- BS in Computer Science and Statistics.

Work Experience

Software Developer

**University of Pittsburgh
(Department of
Developmental Biology)**

August 2018 – Present

Pittsburgh, PA

- Developing Shiny application to help research scientists in the Children's Hospital of Pittsburgh Rangos Research Center get subsets of large gene variant datasets
- Redeveloped the departments data pipeline for processing RNA sequenced data

Software Engineer Intern

**Carnegie Mellon Software
Engineering Institute (ETC)**

May 2018 – August 2018

Pittsburgh, PA

- Built web application for performing analysis on collected interview data, and creating visualizations for a study ordered by the Office of the Director of National Intelligence
- Developed new ways and perspectives on how to interpret the data collected from various organizations through the use of NLP libraries and statistics
- Developed way to easily ingest, organize, and pipe interview data on to the web application

Skills

- Programming Languages: Python, Java, Javascript/HTML/CSS, R Project
- Technologies: Git/GitHub, Google Cloud, PostgreSQL, SQLite, Tableau, Windows/Linux
- Libraries: Flask, Tidyverse, Django, Numpy/SciPy, D3, Bootstrap, Spacy
- Coursework: Data Structures, Linear Algebra, Calculus 1/2/3, Probability/Statistics, Algorithms

Projects

- **PittAPI** (<https://github.com/Pitt-CSC/PittAPI>) Library for scraping various data from the University of Pittsburgh python, BeautifulSoup, requests
- **wait-list** Personal search project to understand the decision whether to join the wait list for a course or to switch to different course that could provide more value (python, requests, SQLAlchemy, PittAPI)

Leadership, Talks, and Awards

- **She Innovates** (Hackathon Committee Member) November 2018 - January 2019
- **Pitt Computer Science Club** (Business Manager) August 2018 - August 2019
- **SteelHacks** (Hackathon Committee Member) January 2019 - March 2019
- **Pittsburgh Python** (Speaker) August 2018
- **Cumberland Valley High School** (Hall of Fame for Computer Science) May 2017