

ALEX ZHARICHENKO

Data Engineer/Scientist

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EXPERIENCE

Software Engineering Intern

Uber ATG

📅 Starting May 2020

📍 Pittsburgh, Pennsylvania

- Working on the Data Foundations Team under the Core Platforms team.

Data Engineering Intern

Highmark Health

📅 May 2019 – Exp. May 2020

📍 Pittsburgh, Pennsylvania

- Built internal utility and web app for converting SQL queries into PySpark code for faster execution on computing cluster.
- Working on projects dealing with NLP and clinical documents.
- Python, Flask

Software Developer

University of Pittsburgh School of Medicine (Department of Developmental Biology)

📅 Aug 2018 – May 2019

📍 Pittsburgh, Pennsylvania

- Built a Shiny application to help research scientists get subsets of large gene variant datasets.
- Redeveloped the department's data pipeline for processing sequenced RNA data.
- R, Tidyverse, SQLite, Shiny, Nextflow, Java

Software Engineering Intern

Carnegie Mellon University Software Engineering Institute (Emerging Technology Center)

📅 May. 2018 – Aug. 2018

📍 Pittsburgh, Pennsylvania

- Built dashboard web application for performing analysis and visualizations of cyber intelligence data for a study.
- Performed analysis of data collected through the use of NLP for identifying key terms and descriptive statistics.
- Python, Django, HTML, Javascript, SpaCy, Pandas, PostgreSQL

EDUCATION / COURSES

B.S. in Computer Science and B.S. in Statistics

University of Pittsburgh

📅 Aug. 2017 – Exp. Dec. 2021

COURSEWORK

- Algorithms, Data Structures, Systems Software, Computer Organization, Discrete Structures, Linear Algebra, Calculus 1/2/3, Probability, Statistics, Principles of Data Science, Time Series Analysis, Operating Systems, Formal Methods in Computer Science, Statistical Packages
- Upcoming Coursework: Data Science, Statistical Learning, Deep Learning, Multivariate Analysis, Database Management

SKILLS

Python, R, Java, SQL, Spark, Pandas, Tidyverse, Hadoop, Flask, Django, Hive, Shiny, Git

PRESENTATIONS

- "Scraping Your Way to a Dataset" at PyOhio 2019
- "Building the Pitt API with Python" at Pittsburgh Python

RESEARCH

University of Pittsburgh

Computer Science Education Research

📅 September 2019 – Present

- Research for understanding core courses in the CS curriculum and effectiveness of teaching.

EXTRACURRICULARS

Pitt Computer Science Club

Business Manager

📅 April 2018 – Present

- Developing university student's professionally through club projects, hackathons, networking, interview preparation, and programming competitions

The Hackathon A Team

Event Organizer

📅 Dec. 2018 – Present

- Leads and runs various hackathons put on by the School of Computing and Information
- SteelHacks 2019 and 2020
- ShelInnovates 2019 and 2020
- Hacking4Humanity

PROJECTS

PittAPI

- Maintainer and developed open source library for scraping various data from the University of Pittsburgh.

wait-list

- Personal research project on how different features effect the likelihood of a student getting off the wait list for a class.