

Avi Glozman

American and Israeli Dual Citizen

425.802.6718 — avi@avigloz.net

avigloz.net — [GitHub: /avigloz](https://github.com/avigloz)

Education

University of Pittsburgh, Pittsburgh, PA

B.Sc. in Computer Science

Dean's List: *Spring 2020*

August 2018 — December 2020 (Expected)

Skills

Programming languages: Python, Node.js, Java, C#

Learning about: C++, Haskell, Machine Learning, Computer Vision, Functional Programming, Language Design

Technologies: Git, SQL (MS, My, Postgres), NoSQL (CouchDB, MongoDB), Linux, Azure, \LaTeX

Professional Experience

University of Pittsburgh, SCI, Pittsburgh, PA

Machine Learning Researcher *CS Capstone*

May 2020 — August 2020

- Used YOLOv3 object detection with the Darknet machine learning framework to allow for uninvasive identification of parts of the cervical spine anatomy in real-time
- Developed a pipeline for converting CT scan data (DICOM) into a 3D model, then into images for model training and testing

Undergraduate Researcher, Learning Technologies Lab

November 2019 — Present

- Using Python and BeautifulSoup to efficiently scrape hundreds of faculty profiles to gain various insights, such as specific research interests, publication data, lab affiliations, etc.
- Compiling scraped data into an easy-to-process dataset for use in an undergraduate research opportunity discovery platform

Uber, Pittsburgh, PA

Software Engineering Intern, Simulation, Advanced Technologies Group (ATG)

May 2019 — August 2019

- Created an ETL system using Python for moving self-driving car related data from DynamoDB to PostgreSQL, and solved complex data-syncing challenges
- Developed algorithms in Python for effective pruning of broken, invalid, and/or redundant data
- Contributed significantly to a web API written in Go for self-driving car data analysis in production

aspace, Seattle, WA

Software Engineer, Backend

June 2017 — October 2017

- Designed databases using both MySQL and MongoDB to support a RESTful API written in Node.js
- Wrote an implementation of Dijkstra's algorithm using Node.js for use during navigation
- Used Twilio's SMS API to integrate two-factor authentication into the backend

Please note that the present lack of software engineering internships is solely a consequence of my quick completion of my degree.

Highlighted Technical Projects

Synesthesia (*open source*)

- Program that creates unique patterns/visualizations for any sort of audio, by algorithmically interpreting and "displaying" the sound in a visually satisfying manner (using C++).

rentnexus

- Site that provides a focused platform for *students* to post about housing opportunities and requests, e.g sublet notices, roommate requests, etc. around campus.

Extracurriculars

Pitt Computer Science Club (CSC) Member and Mentor

September 2018 — Present

Wikipedia Contributor (under username *Avigl*)

June 2016 — Present