Avi Glozman

American and Israeli Dual Citizen

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Education

University of Pittsburgh, Pittsburgh, PA
B.Sc. in Computer Science   *August 2018 — December 2020 (Expected)*
Dean's List: *Spring 2020*

Skills

Comfortable with: Python, Java, C#, C, Node.js
Learning about: C++, Distributed Systems, Containerization, Machine Learning
Technologies: Git, SQL (MS, My, Postgres), NoSQL (CouchDB, MongoDB), Linux, Azure, LaTeX

Professional Experience

University of Pittsburgh, SCI, Pittsburgh, PA

Machine Learning Researcher   *May 2020 — September 2020*
- Trained a YOLOv3 object detection model using Darknet for detecting parts of the human spinal anatomy with up to 98% accuracy
- Developed a pipeline for converting CT scan data (DICOM format) into a 3D model, then into variously augmented 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 easy-to-process datasets for use in a university-wide undergraduate research opportunity discovery platform

Uber, Pittsburgh, PA

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

Lead Software Engineer, Backend   *May 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.

Noteworthy 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*