

Avi Glozman

Backend Engineer

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Skills

Programming languages: Node.js, Python, TypeScript

Concepts: REST APIs, WebSockets, Distributed Systems, Data Pipelines

Software: Git, Linux, SQL, NoSQL, Azure, AWS, \LaTeX

Spoken languages: English (Native), Russian (Native), Spanish (Elementary), Hebrew (Elementary)

Professional Experience

Hooked, Los Angeles, CA (*Remote*)

Backend Engineer

April 2021 → Now

- 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 2000+ augmented images for use as a synthetic dataset for model training and testing

Uber, Pittsburgh, PA

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

May 2019 → Aug. 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 pruning algorithms in Python for preventing transfer of broken, invalid, and/or redundant data relating to self-driving car testing
- 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 → Oct. 2017 (11th – 12th grade)

- Designed MySQL and MongoDB databases for storing parking spot sensor data and user data, respectively
- Designed a RESTful API written in Node.js to support UX on Android and iOS apps, and for receiving sensor data
- Wrote an implementation of Dijkstra's algorithm using Node.js for navigation, relying on user location data and data from Mapbox's API
- Used Twilio's SMS API to integrate two-factor authentication into the backend

Noteworthy Technical Projects

Incompare (*personal, open source via GitHub*)

2021 → Now

- Using local tax rates and user-provided financial inputs, plots a parallel coordinate graph with Plotly (using Python)
- Fetches/scrapes relevant data from SmartAsset.com's API using automatically detected, or user-provided zipcode

Lightweight Messenger (*schoolwork*)

2020

- Used Node.js and Socket.io to design a backend for a lightweight messaging system prototype
- Implemented a RESTful API with Express.js for interacting with a PostgreSQL database for user accounts, contacts, message history, etc.

For more cool projects, don't hesitate to check out my GitHub!

Education

University of Pittsburgh, Pittsburgh, PA

B.Sc. in Computer Science, **3.4 in-major, 3.2 overall**

Aug. 2018 → Dec. 2020

Dean's List: Spring 2020, Fall 2020

Notable coursework: Web Applications, Data Structures, Algorithm Implementation, HCI, Discrete Mathematics, Formal Methods

Interests

Private Online CS and English Tutor

Oct. 2017 → Now

Wikipedia Contributor (under username *Avig!*) — over 770k all-time article views

June 2016 → Now