

# Avi Glozman

Backend Engineer and Architect

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## Skills

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

**Concepts:** REST APIs, Serverless, Distributed Systems, Data Streaming

**Software:** NoSQL, Object storage (S3), Elasticsearch, SQL, Git, Linux, AWS, Azure, L<sup>A</sup>T<sub>E</sub>X

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

## Professional Experience

**Hooked**, Remote, USA

### Software Engineer and Architect, Backend

*Apr. 2021 → Now*

- Developing and deploying data streaming architecture on AWS for analytics and big data storage
- Integrating payment services to facilitate subscriptions into the API and backend framework using Node.js
- Writing test-driven, efficient and elegant code in an Agile manner

**University of Pittsburgh, SCI**, Pittsburgh, PA

### Undergraduate Researcher, Learning Technologies Lab

*Nov. 2019 → Dec. 2020*

- Used Python and BeautifulSoup to efficiently scrape hundreds of faculty profiles to gain various insights, such as specific research interests, publication data, lab affiliations, etc.
- Compiled 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 → 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 (11<sup>th</sup> - 12<sup>th</sup> 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

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

## 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

## Interests

Private Online CS Tutor

*Oct. 2017 → Now*

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

*June 2016 → Now*

Electrical engineering, CAD and 3D printing, music, philosophy, writing, strategy and immersive RPGs (videogames)

**Currently omitted or in-progress sections:** *Personal projects, Publications, Coursework*