

Skills

Programming Languages: Haskell, Python, JavaScript (Node.js, Typescript), C#, HTML/CSS

Concepts: REST APIs, Distributed Systems, System Design/Architecture, MFA

Software: SQL (PostgreSQL), NoSQL (MongoDB, DynamoDB), Object storage (S3), Git, Linux, AWS, \LaTeX

Spoken Languages: English (Native), Russian (Native), Spanish (Rusty Intermediate), Hebrew (Elementary)

Experience

Mercury, hybrid from New York, NY

Backend Software Engineer II, Cards

Aug. 2023 → Now

Backend Software Engineer, Cards

Jun. 2022 → Aug. 2023

Fun fact: I learned Haskell on the job from scratch!

- Writing robust, purely-functional, and test-driven Haskell to support Mercury's IO card and credit platform
- Building APIs and automation in administrative dashboards for managing customer credit lines
- Developing efficient and seamless collection tools for mitigating credit risk and enabling new credit products
- Owning projects end to end, from research and specification, to implementation and support

Stream, remote from New York, NY

Backend Software Engineer and Architect, SmartMenu

Apr. 2021 → Jun. 2022

- Led design and development of SmartMenu, a first-of-its-kind system that allows for same-day restaurant onboarding
- Integrated Stripe payments to enable users to subscribe to Stream, and built related API and backend framework
- Deployed data streaming architecture on AWS for analytics and big data with S3, Elasticsearch, and Kinesis
- Wrote test-driven, fast and elegant Node.js code in an Agile manner and reported directly to the CTO

Uber, Pittsburgh, PA

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

May 2019 → Aug. 2019 (freshman summer)

Fun fact: ATG was acquired by Aurora in Dec. 2020!

- 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)

- Deployed 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

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 1.2M all-time aggregate views

June 2016 → Now

Functional programming, neuroscience/biology, finance, music, metaphysics/ontology, writing poetry, history, videogames

Currently omitted or in-progress sections:

Personal projects, Publications, certain Skills (ones I haven't used in a while)

For my personal projects, check out my GitHub!