

Summary

I organize and unlock data for solving real-world problems, by applying techniques in Artificial Intelligence, Augmented Reality, Web/Mobile App Development, and Cloud Native Infrastructure.

Education

Bachelor of Science, University of Michigan, Ann Arbor

Dec 2015

Computer Science & Biomedical Engineering

Technical Skills

Proficient with: Python, JavaScript, Docker, Terraform, Kubernetes, AWS, Node.js, React/Redux, SQL, C++, HTML/CSS, Git

Familiar with: Go, Java, Ruby, Django, Flask, Android, MongoDB, Arduino, MATLAB, Vimscrip, Lisp

Experience

Senior Software Engineer, Flatiron Health

Jan 2019–Present

Building data platforms and infrastructure to accelerate oncology research and improve real-world outcomes for cancer patients. Managed team in building [Kafka](#)-based data streaming platform by scoping deliverables and unblocking work with technical guidance. Oversaw platform's development in streaming oncology EHR data to data warehouses for ETL pipeline usage. Designed and implemented [Terraform infrastructure workflows](#) to scale with Flatiron's business and technology growth. Developed highly available workflow management platform (with [Apache Airflow](#)) to orchestrate oncology data ETL pipelines. Implementing with containerized Python and Go services, and provisioned via Terraform and Ansible in AWS. [flatiron.com](#)

CTO, Innovikas LLC

Sep 2018–Jan 2019

Consulted for technical agency focused on pre-seed to Series A startups. Designed and built web/mobile apps in various stacks.

Software Engineer, PicnicHealth

Aug 2016–Sep 2018

Built Human-in-the-Loop Artificial Intelligence platform—which won [Google's Machine Learning Startup Competition](#)—to power PicnicHealth's complete medical record data pipeline for better patient experiences and real-world clinical study outcomes. Implemented with containerized Node.js/React web app and Python services, and orchestrated with Kubernetes in GKE. [picnic.ai](#)

Software Engineering Intern, Augmedix

May–Aug 2015

Designed and built end-to-end Mobile Device Management solution for [Augmedix's health record documentation service](#) that streams patient visits via Google Glass wearables to medical scribes. Implemented solution to remotely control and monitor hundreds of Google Glass units, so doctors spend less time charting health records and more time engaging with patients.

Codebase Manager, Michigan Hackers

Sep 2014–May 2015

Developed and maintained open-sourced university related websites and mobile apps. [github.com/michiganhackers](#)

Software Engineering Intern, Nephosity

May–Aug 2014

Developed WebGL [DICOM medical image viewer](#) and [RESTful API](#) with Python Tornado Web Server to manage medical images.

Software Developer Intern, Wireless Information Network Lab, Rutgers University

May–Aug 2013

Worked on [an Android app](#) using a MOD LIVE Heads Up Display and Android phone to [recognize faces](#) from a training set database and display relevant information (name and age).

Projects

Open Source Contributions, Various

Dec 2017–Present

Contributed to [Apache Airflow](#) (Python), [HashiCorp's Terraform Enterprise Terraform Provider](#) (Go), and [ExcelJS](#) (JavaScript).

CannyCam, Personal Project

Jul 2013–Present

Created [CannyCam](#), an open-source [image detection Python package](#) using OpenCV Canny Edge Detection and Haar Cascades to isolate and detect anatomical parts. [pypi.org/project/cannycam](#)