

## skills

Python • C/C++ • Javascript • Go • Node.js • Tensorflow • OpenCV • Docker • HTML/CSS

# experience

Hive.Al San Francisco, California May 2018 - Aug 2018

Software Engineering Intern

• Designed and built real-time face detection pipeline in C++ and 100k+ embedding facial index in 60ms w/ vectorized kNN, OpenCV + Eigen and lots of stuff to make the description go all the way to the end of the line

- GPU memory manager in Tensorflow model server to handle thousands of concurrent RPC requests
- · Automate pipeline to get trained models into Hive serving I'm so bad at making descriptions

### dominKnow Learning Systems

Ottawa. Ontario

Software Developer Intern

Jun 2016 - Aug 2017

- Led full-stack development of HTML5 software simulation platform with Java and Elasticsearch backend
- Built general-use linear-time JSON version control system
- Optimized automated LESS compilation and increased compilation speeds by 500%

### Waterloop Hyperloop Design Team

Waterloo, Ontario

Communications Software Co-Lead

Sept 2017 - March 2018

- Spearheaded data pipeline design for three way communication between pod, relay servers and pilot controls
- Designed multiplexed UDP library in Go to increase data throughput by 50x and reduce latency by 90%

#### University of Ottawa Heart Institute

Ottawa. Ontario

Mobile Development Lead

Feb 2016 - Feb 2017

- Led development of pager app to prepare med students for residency by simulating surgical incidents
- Presented at the Canadian Conference on Medical Education & American Association of Surgical Education

# projects

Order Al github.com/shunr/order-ai

- Conversational agent platform for takeout backed by restaurants in Waterloo and Toronto
- · Built centralized Node. is server for speech processing and SIP call routing from each restaurant

github.com/shunr/orpheus **Orpheus** 

 Machine learning experiment in Node.js that trains a online classification model to learn individual music tastes using interactive feedback to Spotify previews

# education

## **University of Waterloo**

Software Engineering Class of 2022

- 91.4/100 GPA (Top Decile)
- Dean's Honors List (All Terms)

## achievements

2017 HackerRank 97th Percentile

2017 USA Computing Olympiad Platinum Division

2017 Waterloo President's Scholarship of Distinction

2017 ECOO Programming Contest Eastern Ontario Champion