SAMUEL PEERS

samuelpeers@gmail.com • github.com/samuel-peers

MICROTRAFFIC

Machine learning startup analyzing traffic intersection safety

Senior Full Stack Developer April 2020 – Present

- Transforming MicroTraffic's flagship traffic analysis platform into an enterprise solution
- Leading the integration of MicroTraffic software with smart city companies
- Introducing MLOps/DevOps processes, improving reproducibility, testing, and deployment
- Optimizing computer vision and deep learning processes, greatly increasing throughput

MANITOBA HYDRO INTERNATIONAL

VisualSpection Team - a smart glasses application for the utility sector

Lead Full Stack Developer January 2018 – March 2020

- Directed the creation of a web application used by the largest utilities in North America
- Launched a machine learning pilot using TensorFlow, creating new lines of business
- Migrated the company's most profitable application to AWS, greatly improving reliability
- Greatly decreased response time by creating an asynchronous backend system

Full Stack Developer (Co-op) May 2017 – December 2017

- Led the rewrite of a large web application from Angular 1 to React and Redux
- Created an Android app and React web portal for tracking user locations
- Accelerated the team's DevOps process and CI by creating code pipelines in AWS

FIREFOX DEBUGGER

The smarter and faster debugger for Firefox devtools

Open Source Contributor September 2017 – December 2017

- Developed a smart hover feature for React components in the debugger
- Contributed to the debugger acceptance testing
- Implemented a help menu for displaying keybindings

VARIAN MEDICAL SYSTEMS

DevOps Team - Deploying and maintaining oncology software in the cloud

DevOps Engineer (Co-op) August 2016 – January 2017

- Migrated all projects to TeamCity and NuGet, greatly simplifying CI/CD
- Automated a lengthy cloud process using PowerShell and the vSphere API
- Created and maintained virtual machines and networks in the cloud

PUBLIC HEALTH AGENCY OF CANADA

Infectious Disease Team - Developing software to combat infectious diseases

Full Stack Developer (Co-op) January 2016 – April 2016

- Organized all the lab's genomic data using Python and a graph database
- Made the database accessible to all labs using the Blazegraph API and Flask
- Automated cleaning and inserting of legacy data using Python and Pandas

SKILLS

Backend
Python
Flask
MySQL
Redis
Celery

Frontend
React
Redux
JavaScript
HTML/CSS

DevOps
AWS
docker
kubernetes
helm
Jenkins

Machine Learning
PyTorch
TensorFlow
Keras
DVC

EDUCATION

University of Manitoba
B.Comp.Sc.
(Honours)

Linköping University
Exchange Student

Coursera
Reinforcement Learning Specialization

Sequence Models