

Education

University of Waterloo

Computer Science (9/2016 - 4/2021)
91 Average, Dean's List in 5 of 6 terms
Favourite Courses: Game Theory,
Theory of Computation

Skills

Programming Languages

Python
JavaScript
C/C++
Golang
Scheme

Cloud environments

AWS
Azure

DevOps

Docker
Kubernetes
Vagrant

Frontend Frameworks

React
Angular

Data Science

NumPy
Pandas
Scikit-learn
Jupyter

Interests

Ultimate Frisbee

I play for my university team as well as for a local club team.
I also took on a leadership role with the NYU team while living in New York.

Creative Writing

I write articles about sports and business topics that interest me.

Experience

Data Engineer Munich Re

9/2019 (Ongoing)

- Built and deployed a telemetry-enabled PDF viewer for medical documents
- Implemented role-based content scoping to ensure secure access to sensitive information
- Configured automatic deployment pipelines using Docker, Kubernetes

Data Scientist Munich Re

1/2019 - 4/2019

- Researched and implemented a parallelized, clustering-based algorithm to reduce dimensionality in datasets with a large number of correlated features
- Developed an interactive tool to interpret black-box models using counterfactuals
- Designed a React web application to visualize feature importance for NLP models

Software Developer Bonfire Interactive

5/2019 - 8/2019

- Designed a RESTful API to be used across all Bonfire services
- Integrated an Object-Relational Mapping into the API to improve data representation
- Implemented integrated testing protocols to increase testing robustness

Projects

GNight Generalized knight simulator and visualizer

C++, OpenCV (7/2019)

- Analyzed movement of general chess knights using BFS and Random Walk algorithms
- Built a path visualization module using OpenCV

GoCV Templated resume generator

Golang (9/2019)

- Built a resume templator to generate multiple views from common JSON data
- Supports TeX, HTML output with potential to add other formats

Teaching and Research

Research Assistant

3D Images (5/2019 - 8/2019)

- Researched algorithms for consistent 3D line drawings
- Implemented a 3D image stylization algorithm in OpenCV
- Supervisor: Lesley Istead

Teaching Assistant

Math and CS (9/2017 - Present)

- Hosted weekly office hours for first year courses
- Organized and presented end-of-term review sessions for hundreds of students
- Specialties: Functional Programming, Linear Algebra, Statistics