Nick Lemoing

lemoing.ca

in LinkedIn

Education

University of Waterloo

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

Skills

Programming Languages

Python

JavaScript/Node

C/C++

Golang

Matlab

Frontend Frameworks

React

Angular

Data Science

NumPy

Pandas

Scikit-learn

Graphics and Visualization

OpenCV

OpenGL

d3.js

Cloud environments

AWS

Azure

Everything else

MySQL

Docker

Git

Interests

Ultimate Frisbee

I've played for my university's school team for three seasons.

I also played on NYU's team while living in New York.

Creative Writing

I write articles about various math, sports and business topics on my blog. I'm also a hobbyist short story writer.

Bike Rides

While in New York I biked to work every day, as well as to all five boroughs.

Experience

Data Engineer Munich Re

9/2019 - Present

- Developed custom visualization, navigation and annotation components for reviewing medical PDFs in the browser
- Managed the production deployment of a hosted PDF viewer using Docker and CI/CD pipelines
- Orchestrated machine learning pipelines with Airflow

Data Scientist Munich Re

1/2019 - 4/2019

- Researched and implemented a parallelized, clustering-based algorithm to reduce dimensionality in datasets with correlated features
- Developed black-box model interpretation tools in Python and React
- Evaluated alternative data sources using interpretable random forest models

Software Developer Bonfire Interactive

5/2019 - 8/2019

- Developed new features for the core procurement app with Angular and Node
- Kickstarted the consolidation of several backend services into a Node API
- Spearheaded the addition of an integration testing framework to ensure stability across Bonfire services

Projects

GNight Generalized knight simulator and visualizer

7/2019

C++, OpenCV, d3.js

- Analyzed movement of general chess knights using BFS and Random Walk algorithms
- Built a path visualization module using C++, OpenCV
- Implemented animated visualizations in d3 for the explorative post on my blog

GoCV Templated resume generator

9/2019

Golang

- Built a resume template engine to generate resumes from JSON data
- Supports TeX, HTML output with potential to add other formats
- Used as the basis for my personal site as well as this resume

Fantasy Baseball Predictive Model

1/2018

Python

- Built a web scraper in Python to aggregate baseball box score data
- Constructed a neural net from the ground up using linear algebra primitives
- Analyzed the relationship between past seasons and future success

Teaching and Research

Research Assistant

5/2019 - 8/2019

Stereo 3D Images (Supervisor: Lesley Istead)

- Researched algorithms for consistent stereo 3D line drawings
- Implemented a 3D image stylization algorithm in OpenCV

Teaching Assistant

9/2017 - Present

Math and Computer Science

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