# Nick Lemoing

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🗘 GitHub 🛅 LinkedIn

# About Me

- I'm a full stack engineer from Canada currently working in New York.
- I have experience all over the stack, from designing A/B tests on the front-end to backend and data engineering.

# **Education**

#### University of Waterloo

Computer Science (9/2016 - 4/2021) Dean's Honour List, 91 Average Favourite Courses: Computer Graphics, Science Fiction, Game Theory

# Skills

#### **Programming Languages**

Python JavaScript/Node Java/Kotlin C/C++

#### **Frontend Frameworks**

React Angular

## **Graphics and Visualization**

OpenCV OpenGL d3.js

# 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.

# Cycling

- Logged 2000 kilometers in 2020 and 2021
- While in New York I biked to work every day, as well as to all five boroughs.

# **Creative Writing**

I write articles about various math, sports and business topics on my blog.

# Experience

## Software Engineer Noom

9/21 - Present

- Pioneered a new system for client-server communication that reduced DB costs by 3x
- Introduced the ability to deploy developer instances of services on-demand to speed up dev velocity
- Developed and launched the second iteration of Noom's experiment framework which serves all traffic on noom.com

## Data Engineer Munich Re

- 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

- 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

- 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

# **Selected Projects**

GNight Generalized knight simulator and visualizer

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

Golang

- Built a resume template engine to generate this resume from JSON data
- Supports LaTex and HTML formats

# **Teaching and Research**

## **Research Assistant**

Stereo 3D Images (Supervisor: Lesley Istead)

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

## **Teaching Assistant**

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

**i** 5/2019 - 8/2019

**#** 9/2017 - Present

**i** 1/2019 - 4/2019

**9**/2019 - 12/2019

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**#**9/2019