

Nolan Dey

Aspiring Machine Learning Researcher

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SUMMARY

Machine Learning: Python, SKLearn, TensorFlow, Keras, Matplotlib, NumPy, Pandas, and MATLAB

Infrastructure: GCP, AWS, Docker, Kafka, Terraform, MongoDB, PostgreSQL, CoreML, Linux, and Git

EXPERIENCE

Mind Foundry | Machine Learning Research Intern Jun. 2018 - Aug. 2018

- Devised a general method of estimating the training time and memory usage of machine learning algorithms given a data set and hyperparameters (pending publication)
- Heavily used SKLearn, NumPy, Pandas, Matplotlib, Google Cloud Platform, and LaTeX

Apple | Web & Machine Learning Intern Sep. 2017 - Dec. 2017

- Deployed image classifier in a MacOS app that automated a costly manual labelling process
- Leveraged SKLearn, MATLAB, NumPy, Pandas, Turi Create, and CoreML in image classifier
- Created a scheduling application with Ember, Rails, and D3 which improved internal workflows

University of Waterloo | Undergraduate Research Assistant Jul. 2017 - Aug. 2017

- Under Prof. Jennifer Boger, enabled a woman with advanced multiple sclerosis to initiate and receive calls from a long-term care facility using a custom Android app and a bedside mount

Capital One | Data Science Intern Jan. 2017 - Apr. 2017

- Deployed distributed event data pipeline that processed 480 MB/s and saved \$200k annually
- Leveraged Docker, Terraform, Ansible, AWS, Kafka, Snowplow, Scala, and Python in pipeline
- Performed error analysis on a production model and reduced prediction error by 21.4%

Parabol | Full-Stack Developer Intern (Part-time) Sep. 2016 - Dec. 2016

- Remotely contributed to open-source web-app using Node, React, Redux, RethinkDB, GraphQL
- Implemented several features that improved the user experience and added key functionality

Connected Lab | Software Engineering Intern May 2016 - Aug. 2016

- Wrote microservices using Node, React, MongoDB, CloudFoundry and pair programming
- Worked on iOS app enabling users to stream music to multiple speakers via wifi or bluetooth

Kik Interactive | iOS Developer Intern Sep. 2015 - Dec. 2015

- Wrote major social sharing feature in Objective-C over a four month development cycle
- Pioneered network protocol using Google Protobuf which decreased data usage and latency

EDUCATION

Systems Design Engineering (BASc) | University of Waterloo 2014 - 2019

Relevant Courses: Applied Artificial Intelligence, Image Processing, and Cognitive Ergonomics

Engineering Exchange | Lund University 2018

Deep Learning Specialization | deeplearning.ai (Coursera) 2017

Courses: Neural Networks and Deep Learning, Improving Deep Neural Networks, Structuring Machine Learning Projects, Convolutional Neural Networks, and Sequence Models

Machine Learning | Stanford University (Coursera) 2017