

# 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

**Engineering Capstone Project | Team Member** **Sep. 2018 - Present**

- Developing a method to adjust the diversity of music recommendations from collaborative filtering systems based on the inferred musical personality of users

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

- Worked under Prof. Stephen Roberts to develop a general method of estimating the training time and memory usage of machine learning algorithms given a data set and hyperparameters
- Utilized SKLearn, NumPy, Pandas, Matplotlib, Google Cloud Platform, and LaTeX

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

- Identified and automated a costly labelling process with image classifier deployed on MacOS
- 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

**Capital One | Data Engineering 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**