Nolan Dey

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SKILLS

Prototyping: Python, TensorFlow, Keras, PyTorch, SKLearn, MatPlotLib, NumPy, SciPy, multiprocessing
Experimentation: GCP, AWS, Pandas, Docker, Kafka, Terraform, PostgreSQL, Linux, Git

EDUCATION

MASc in Systems Design Engineering – University of Waterloo   Sep. 2019 - Present
    Supervisors: Bryan Tripp, Graham Taylor, Alexander Wong
    Research Topic: Adapting Neuroscience Methods to Explain Deep Network Function

BASc in Systems Design Engineering – University of Waterloo   Sep. 2014 - Apr. 2019
    GPA 3.7/4.0, Graduated with Distinction
    Exchange term at Lund University (Lund, Sweden)

EXPERIENCE

Machine Learning Research Intern – **Mind Foundry** (Oxford, UK)   Jun. 2018 - Aug. 2018
- Worked under Prof. Stephen Roberts to develop a general method to predict the training time and memory usage of machine learning algorithms given a data set and hyperparameters, using SKLearn, MatPlotLib, GCP

Machine Learning & Web Intern – **Apple** (Cupertino, USA)   Sep. 2017 - Dec. 2017
- Identified and automated a costly labelling process with image classifier using SKLearn, MATLAB, NumPy
- Created a scheduling application with Ember, Rails, and D3 which improved internal workflows

Undergraduate Research – **University of Waterloo** (Waterloo, Canada)   Jun. 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

Data Science Intern – **Capital One** (Kitchener, Canada)   Jan. 2017 - Apr. 2017
- Developed and deployed a distributed event data pipeline that processed 480 MB/s and saved $200k/year
- Leveraged Python, Scala, Docker, Terraform, Ansible, AWS, Kafka, Snowplow, and PostgreSQL in pipeline

Full-Stack Developer Intern – **Parabol** (Remote)   Sep. 2016 - Dec. 2016
- Remotely contributed to open-source web-app using Node, React, Redux, RethinkDB, GraphQL

Software Engineering Intern – **Connected Lab** (Toronto, Canada)   May 2016 - Aug. 2016
- Developed microservices using Node, React, MongoDB, CloudFoundry, and pair programming

iOS Developer Intern – **Kik** (Waterloo, Canada)   Sep. 2015 - Dec. 2015
- Wrote major social sharing feature in Objective-C for an app with over 200M users

Quality Assurance Intern – **Kik** (Waterloo, Canada)   Jan. 2015 - Apr. 2015
- Rigorously tested new features, conducted usability testing, and worked with developers to find issues