

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