KAELAN LUPTON

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QUALIFICATIONS AND SKILLS

- Languages: Java, Python, Swift, R, SQL, C, C++, HTML, Javascript, Bash, Haskell, Prolog
- Software: Keras, Pandas, scikit-learn, Tensorflow, PyTorch, openGL, Adobe Creative Suite.
- Competed in Kaggle competitions such as merchant category recommendation (tabular data), pet adoption prediction (image and text data), and titanic predictions.
- Quick and responsive learner with a passion for promoting diversity and inclusivity.
- Excellent communication and interpersonal skills built through 7+ years in service industries and various learning experiences spanning multiple post-secondary schools.
- Focused on cultivating a positive, creative, and constructive team atmosphere to achieve maximal results.

EDUCATION

Bachelor of Computer Science (Honours), Queen's University, Kingston, Ontario
September 2016 - April 2020

- Relevant Courses: Data Structures, Algorithms, Databases, Computer Architecture, Design Thinking, Artificial Intelligence, Intro. to Computing Science I & II, Logic for Computing Science, Fundamentals of Web Design, System Level Programming.

RELEVANT EXPERIENCE

Queen's Machine Intelligence & Neuroevolution Design (QMIND)
Project Manager, August 2018 - Present

- Manage a team of dedicated and passionate individuals to develop artificial intelligence systems for organizations and professors on campus.
- Build machine learning systems in areas such as finance and health using various methods like convolutional & artificial neural networks, LSTM models, neuroevolution and more.

Content Creator & Developer, February 2018 - August 2018

- Co-created an accredited Queen's University course titled "*A Brief Introduction to Artificial Intelligence*": fifteen weeks of module-based material to introduce students to the field of artificial intelligence, covering topics such as feed-forward networks, naïve Bayes models, classifications, and more. Co-wrote the accompanying 450-page text in addition.
- Beta tested the program in Summer 2018 to incoming Queen's students with great success.

QHacks
Hacker Experience Coordinator, August 2018 - Present

- Responsible for shaping the QHacks 2019 experience to provide the best possible value for hackers prior to, during, and following the event, while ensuring logistical soundness.
- Responsibilities include speaker organization, supply and merchandise ordering, coordinating workshops with partners and logistical problem-solving.

EMPLOYMENT HISTORY

Sales Associate *October 2017 - August 2018*
Urban Outfitters, Kingston
- Build interpersonal skills through working as part of an efficient team and assisting customers.
- Fine-tune eye for user experience, design, and visual appeal through managing store appearance and displays.
- Promote the future of customer experience enhancement with mobile app interaction.

Science Quest Instructor *Summer 2017*
Engineering Society of Queen's University, Kingston
- Developed and ran both in-school workshops and full camp curriculums for students grades K-8 centred around engineering, computer programming, and science.
- Worked as part of a team which developed computing-specific camps surrounding web development and Python to stimulate educational interest in the subject earlier in school; camps were renewed for next year due to mass success.
- Responsible for up to 20+ children per given week.

Shift Supervisor *April 2016 - August 2017*
CRAVE Coffee House & Bakery, Kingston
- Initiated conversation with customers genuinely and flourished in customer service interactions.
- Developed daily strategies to reach team goals surrounding finances and efficiency, both in the short- and long-term.
- Opened and closed store, counted money, and ensured all tasks were completed effectively.
- Served and prepared beverages and other baked goods.

CERTIFICATES AND PROJECTS

Deep Learning A-Z, Udemy.com *September 2018*
- Artificial, convolutional, and recurrent neural network projects taught by leading data scientists.

CartPole Neuroevolution Project *April 2018*
- Classic pole-balancing cart problem solved in Python based on research done throughout the semester learning about artificial intelligence and its origins from scratch.
- *https://github.com/kaelanlupton/cartPole*

Deep Learning Prerequisites, Udemy.com *February 2018*
- Studied the NumPy, pandas, Matplotlib, and SciPy libraries.