Ethan Bonnardeaux

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Experience

Team Lead, QMIND AI   **September 2019 – Present**

- Directed a team of 5 students in the development of a **Machine-Learning** solution for American **Fortune 500** banking client
- Proposed and developed 3 preliminary solutions involving **Neural Network** and **NLP** models
- Strategically delegated responsibilities and research tasks with schedules, deadlines and twice-weekly meetings
- Tech Stack: **Python, Pandas, Keras, Seaborn, Django, Matplotlib, Google Colab**

Developer, Queens Space Engineering Team   **September 2018 – February 2019**

- Worked in team environment and helped new members to integrate their programming skills to the club's utilized technologies
- Created **C** program modelling projectile motion

Head Lifeguard, City of Toronto   **March 2018 – September 2019**

- Coordinated and managed staff rotations
- Utilized effective teamwork strategies during high stress situations
- Provided information, assistance and customer service to patrons

Projects

Deep Learning Prediction Model   **June 2019 – Present**

- Created a Convolutional Neural Network (**Keras** framework) to predict the median income of a postal code area using satellite data
- Wrote Excel macros to collect postal code data and parse **JSON** files from **Google Cloud** geocoding API on over 100,000 instances
- Converted Excel data to imagery from maps static API using **python** requests library and **OpenCV**
- Handled corrupt data and added precautionary layers in model to generalize and avoid overfitting

Technical Skills

Languages

- Python, C, Javascript(previous experience), HTML, CSS,

Tools/Platforms

- Pandas, Keras, Matplotlib, OpenCV, Seaborn, Express, Google Cloud, Git

Education

Queen's University, Kingston, ON   **September 2018 – Present**

Applied Mathematics Engineering (Computing and Communications Specialization)
Relevant Courses:

- Data Structures and Algorithms, Abstract Algebra, Differential Equations, Calculus III