SAM CANTOR

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EDUCATION

Bachelor of Applied Science, Queen's University, Kingston, ON | September 2017- Present
- Specialization in Computer Engineering, intended graduation May 2021
- Completed courses in Data Structures, Algorithms, Operating Systems, Software Development
- Technical skills in cloud computing, machine learning and software development using Python, JavaScript, C/C++, Java
- Recipient: Queen's Excellence Scholarship ($2000) for an entering average of 90+

PROFESSIONAL EXPERIENCE

Cloud Computing & ML Intern, Distributed Compute Labs, Kingston, ON | May 2019 – September 2019
- Worked on core development for the Distributed Compute Platform, with a specialization in machine learning
- Designed and implemented a control framework for agents in a global distributed network
- Developed methods to accelerate Deep Learning using asynchronous distributed computing

EXTRACURRICULAR EXPERIENCE

QMIND – Queen's AI Hub, Kingston, ON
R&D Project Manager | April 2019-Present
- Managing the robotics and autonomous vehicles team in the Division of AI Research at QMIND
- Implementing real-time object detection using neural networks to develop an intelligent robot perception system
- Providing tutorial sessions and resources for over 300 students in QMIND and Queen's University, teaching them the key concepts of machine learning and how to deploy ML solutions on Microsoft Azure's platform

Design Team Member| September 2018-April 2019
- Developed a program capable of generating original music based off an image
- Implemented Deep Learning using an LSTM neural network, trained the model using data from the Spotify API
- Gained experience with digital signal processing and machine learning

Software Development Team Lead, Engineering Society of Queen's University, Kingston, ON | September 2018-April 2019
- Led a team in developing a 'Smart' Calendar that can import your school calendar and suggest times to add new events
- Practiced and experienced in team/project management, Java programming using Android Studio and GitHub

PROJECTS

Fake News Detection using Artificial Intelligence, Leaders Prize Competition | June 2019 – November 2019
- Collaborated with four other Queen's students to develop an artificial intelligence algorithm to rate news claims as true, partly true or false, and provide evidence to support the rating, without human intervention
- Explored the use of Deep Learning, Gradient Boosted Decision Trees and Ensemble Methods for detecting features such as sentiment analysis and credibility

Microsoft Hackference, Hackathon | November 2019
- Designed a solution to address the UN's Sustainability Goal for quality education using NLP and Azure's Cloud platform
- Used the RoBERTa transformer model by Facebook to provide real-time vocabulary suggestions for students learning English, along with translations to their native language. Used Azure to test, register and deploy the model to an interactive web app

SOFTWARE SKILLS

Languages: Python, JavaScript, C/C++, Java, Assembly
Software: Machine learning (TensorFlow, Keras, PyTorch), data science (SQL, NumPy, pandas), agile development (GitHub, Bitbucket, Jira, Node.js), cloud computing (Microsoft Azure, Distributed Compute Labs)

INTERESTS

- Accomplished pianist with Grade 10 Piano from the Royal Conservatory of Music (RCM), training from Berklee College of Music, experience performing with notable artists, and trained in audio production

References Upon Request