JACKSON KEHOE

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EDUCATION

Bachelor of Computer Engineering, Specializing in Software and Artificial Intelligence, Queen's University, Kingston   **2018 -2023**
- **Academics:** Principal's Scholarship for academic excellence (95%+ entrance average)
- **Relevant Courses:** Operating Systems, Data Analytics, Neural Networks, AI and Interactive Systems, Image Processing

Ontario Secondary School Diploma, Robert F Hall, Caledon, Ontario   **2014 – 2018**
- Academic accomplishments: Special Honors for an overall average in the top 5% in school board, Extended French Program

PROFESSIONAL EXPERIENCE

AI and Machine Learning 5G Software Developer Intern, Ericsson, Ottawa, Ontario   **Sept 2021-Aug 2022**
- Implemented a neural network in python on Ericsson 5G modulator and demodulator to improve decoding accuracies by 20% (Product solution ~ 75%, Neural Network solution ~ 95%)
- Contributed to the Ericsson machine learning and neural network library with a neural network inferencing feature in python for predicting 5G overall throughput based on bit structure
- Constructed reinforcement learning based model using python for antenna calibration that was able to analyze performance metrics based on phase offset and select the corresponding best phase offset

Plant Engineer Intern, UPS, Caledon, Ontario   **May 2021 – Aug 2021**
- Oversaw designing, constructing, and maintaining package handling equipment during the phase 2 implementation in the Caledon Automation Hub
- Led in operational improvements, preparing designs and plans in accordance with established codes, standards and specifications, cost estimating and budgeting, AutoCAD, routine technical surveys, inspections, and audits, assisting in daily maintenance and compliance activities
- Created protection plan and model for building to protect conveyors and important electrical systems from machinery, made cost estimates and performed walkthroughs with construction company consultants

EXTRACURRICULAR EXPERIENCE

Project Manager, QMIND, Queen's University, Kingston, Ontario   **May 2022 – April 2023**
- Project Manager for the Deep Learning and Lung Cancer detection team
- Used image processing and neural networks to classify and localize lung cancer on chest x-rays with 80% accuracy
- Spearheaded interviews, hiring, onboarding, timeline of project, organizing meetings, providing expertise, and writing code to ensure project completion

Design Team Member, QMIND, Queen's University, Kingston, Ontario   **Sept 2020 – Apr 2021**
- Performed analysis on thousands of financial records using clustering techniques and supervised learning in python, created website to showcase results and paper
- Selected to have research paper published

CUCAI delegate, Queen's University, Kingston, Ontario   **March 2021, March 2023**
- Attended the largest Canadian Undergrad Conference on Artificial Intelligence and presented Lung Cancer Detection project and Financial Statement Analysis project to a board of judges and attendees

Projects

- **Engineering Report Feedback:** Website made with Django that implements python-based backend that uses Roberta Large NLP model to provide qualitative feedback on engineering reports as capstone project
- **AR Text Translator App:** AR app that uses Google API to identify text, translate and retransmit in real time
- **Mechatronics:** Constructed and designed the circuits and code for a robot to navigate a maze using an Arduino board
- **Airline Database Website:** React website connected with an SQL database to schedule flights for airlines
- **32-bit processor RISC computer:** Designed the connections and wrote corresponding code for a simplified 32-bit CPU
- **Other Interests:** Hockey, skiing, mountain biking, fishing, video games, golf, piano