JEREMY CHEUNG

Phone: (+1) 647 338 5676
Email: jeremycheungwork@gmail.com
LinkedIn: jeremycheung111
Website: jccheung.github.io

OVERVIEW

Programming Languages: Python, SQL, Solidity, HTML, JavaScript, C

Frameworks /Tools Used: Tensorflow, Numpy, Keras, Pandas, Svelte, ScikitLearn, Anaconda, Jupyter Notebook, NoSQL, AWS S3, MATLAB, Google Firebase, Git, OpenCV, Arduino C, PCB development, PLC

EDUCATION

Toronto Metropolitan University (Ryerson University) – Toronto, Ontario

Master of Engineering *M. Eng* | *Mechanical Engineering* — Sept 2020 - Present

- Specialization in Applied Machine Learning and Data Science

Bachelor of Engineering *B. Eng* | *Mechanical Engineering* — Sept 2014 - Apr 2019

- Specialization in Mechatronics

WORK EXPERIENCE

Applied Machine Learning Developer — Oct 2021 - Present

Acrylic Design (NextAI, Next 36) – Montreal, Quebec

- Developed machine learning models (reinforcement learning) to detect and recreate motion of a robotic arms movement using Python and Tensorflow libraries, with 95% accuracy in error testing
- Programmed a full stack web application using HTML, JavaScript and Svelte to log and display art records according to unique identifiers from the blockchain
- Created Solidity smart contracts to mint NFTs and conducted blockchain transactions to record ownership over assets, which resulted in increased value of art pieces and assets

Data Scientist Intern — May 2021 - Oct 2021

GHD Limited – Toronto, Ontario

- Created and cleaned datasets using data manipulation and augmentation to perform advanced statistical techniques such as regression and classification in order to identify trends and create complex mathematical models
- Prepared algorithms for data mining and preprocessing using live data to integrate with the machine learning data pipeline, as part of the Machine Learning Dev Ops initiative

Energy Consultant Data Analyst Intern — Sept 2020 - May 2021

LeapFrog Energy – Toronto, Ontario

- Using Python libraries NumPy, Pandas, and Scikitlearn, perform analytical modeling for electrical data across entire manufacturing production plant to track and monitor energy trends
- Built, configured, and updated a centralized database using Python and SQL for machine learning functionality to analyze hardware sensor readings through Arduino and Modbus protocol to track performance and efficiency of HVAC components

Engineering Solutions Intern — May 2018 - Aug 2018

Scandinavian Health Limited Group – Taipei, Taiwan

- Designed and built in- house experiment stations and testing fixtures using Arduino and C to test PCB inputs and outputs for prototyping test assemblies, resulted in reducing time and cost of initial design phase by 20%

Assembly Manufacturing Intern — May 2017 - May 2018

Honda Canada – Alliston, Ontario

- Innovated new pneumatic systems and conducted PLC changes to improve associate comfort and safety, resulted in a complete reduction in safety incidents within a zone from 3 to 0 incidents per year