Jeremy Cheung

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TECHNICAL SKILLS

- **Programming Languages:** Python | SQL | HTML | JavaScript | C
- **Libraries and Frameworks:** Numpy | Pandas | Tensorflow | Keras | Pytorch | Scikitlearn | mySQL | pySpark
- **Big Data Technologies:** Apache Spark | Hadoop
- **Database Management Systems:** AWS S3 | Git | Google Firebase | Microsoft Azure Designer | Airflow | Docker
- **Programming Tools:** Tableau | Anaconda | Jupyter Notebook
- **Certifications:** Python for Data Science | Deep Learning Using TensorFlow | Docker Essentials | Azure AI Fundamentals

PROFESSIONAL EXPERIENCE

Machine Learning Engineer   Montreal, Canada
Acrylic Robotics   *Oct 2021 – Sept 2022*

- Developed reinforcement learning algorithms and computer vision to detect motion of a robotic arms movement using Python, Numpy and Tensorflow libraries with 95% accuracy in error testing
- Built automated ETL tools for data searching, cleaning and analysis to reduce time spent on data preprocessing by 20%
- Reviewed and maintained continuous integration, and continuous development (CI/CD) best practices with cross functional teams using DevOps frameworks and Git, increasing overall productivity by 25%
- Collaborated with 10+ software engineers and non-technical staff in an Agile environment to understand business needs and translate into data pipelines and products

Data Scientist   Toronto, Canada
GHD Limited Group   *May 2021 – Oct 2021*

- Performed statistical and mathematical optimization techniques to identify key features from engineering reports and presented insights multiple levels of leadership including the head of analytics and data science
- Utilized SQL to process and filter large scale relational datasets and produce data visualizations for over 30+ clients
- Partnered with cross-functional engineers, product managers and non-technical staff to build project requirements and generate data visualizations to communicate progress to shareholders and clients

Data Analyst Intern   Toronto, Canada
Leapfrog Energy   *Sept 2020 - May 2021*

- Mined data and analytics through web scraping using Jupyter Notebooks and extracted relevant meteorological information for KPI measurements, reducing time spent to retrieve data by 40 - 60%
- Deployed mathematical and statistical analytics on weather and energy demand data to predict future demand of provincial electricity usage achieving 90% accuracy in predictions

Research Assistant   Toronto, Canada
Toronto Metropolitan University   *Sept 2017 – May 2019*

- Designed and implemented deep learning algorithms using Python and Tensorflow to forecast renewable solar and wind trends and output using time series data
- Stayed up-to-date on the latest developments in machine learning papers time series prediction techniques, constantly writing and refining algorithms for their application in the team's research projects

EDUCATION

Certificate of Machine Learning Engineering   San Diego, USA
University of California, San Diego Extended Studies   *Sept 2022 - Dec 2022*

- 6-month intensive course in artificial intelligence and machine learning technologies and methods

M.Eng in Mechanical Engineering (Machine Learning Specialization)   Toronto, Canada
Toronto Metropolitan University   *Sept 2020 - Dec 2022*

- Research focus in LSTM deep learning algorithms for time series prediction on renewable energy production

B.Eng in Mechanical Engineering   Toronto, Canada
Toronto Metropolitan University   *Sept 2014 – Jun 2019*