LEO WONG

POSTGRADUATE AI & COMPUTER ENGINEERING STUDENT

lokyin.wong2@georgebrown.ca   (437) 435-5671   Toronto, ON   /in/leowong-lyw   github.com/LeoLYW12138

HIGHLIGHTS OF QUALIFICATIONS

- Hands-on experience in fine-tuning and deploying Generative AI models such as GPT-based models, leveraging techniques like Prompt Engineering, RAG and LoRA.
- Experience deploying LLM and vector database-backed solutions across major cloud platforms such as AWS, GCP, and Azure, ensuring scalability and robust infrastructure.
- Fast learner with strong initiative—documented terminal operations and delivered actionable insights within one week of onboarding.
- Trilingual in English, Cantonese, and Mandarin; Effective communicator with proven adaptability in diverse teams and environments.

TECHNICAL SKILLS

Data Analysis & Visualization: PySpark, Pandas, Power BI, Tableau, Tableau Prep, SQL, MS Excel

Programming & Tools: Python, Scikit-learn, TensorFlow, SQL, R, Java, C/C++, JS/TS, Bash

ML & Modeling: Tensorflow, PyTorch, Hugging Face, LangChain, Model fine-tuning & evaluation

Cloud & Infrastructure: AWS (SageMaker), Azure (OpenAI Service), Kubernetes, Docker, Terraform, MLOps

Soft Skills: Analytical thinking, Data storytelling, Communication, Curiosity, Learning mindset

EDUCATION

George Brown College   Jan 2025 – Dec 2025 (expected)
T431 Applied AI Solutions Development, Post-graduate Certificate Program – GPA 3.93/4.0
- Fine-tuned BERT for hotel review sentiment classification, using attention-based NLP deep learning techniques.
- Applied classification models and supervised learning techniques using Python (scikit-learn, pandas, matplotlib) for predictive analytics on real-world datasets.
- Conducted business intelligence analysis on retail data: built Power BI dashboards, performed diagnostic and prescriptive analytics, and ensured data quality using Python ETL on 10k+ rows.
- Collaborated on cross-functional, in-class projects simulating industry problems using data science and analytics tools.

Hong Kong University of Science and Technology   Sep 2020 – Jun 2024
BEng in Computer Engineering

University of Southern Denmark   Sep 2023 – Jan 2024
Semester Exchange Student – Took **2 graduate-level courses**: Data Visualization with R and Cloud Computing Continuum with Google Cloud Platform and Terraform

SELECTED PROJECTS & COURSEWORK

Safety Equipment Detection
- Implemented and evaluated multiple state-of-the-art object detection architectures (YOLOv8, Faster R-CNN, RetinaNet) using PyTorch for identifying safety equipment.
- Achieved up to 90% mAP in safety equipment detection by applying transfer learning with the different models.
- Developed interactive application for uploading images and plot the predicted bounding boxes and score using Streamlit.

Fraudulent Transaction Analysis
- Analyzed a large-scale financial dataset (>13M transactions) using SQL, Tableau, and Python to identify fraudulent behavior patterns, geographic hotspots, and transaction anomalies, providing actionable insights for risk mitigation.
- Employed Tableau Prep Builder for ETL processes on the dataset, refining the focus to 4M+ relevant transaction records spanning 4 years and modeling as star schema for detailed analysis.
- Leveraged findings and insights to support financial risk assessment and compliance monitoring applicable to investment and pension operations.
- Developed interactive dashboards using Tableau, incorporating visualizations like box plots, maps, and scatter plots to analyze transaction data and identify patterns.

Leo Wong

Postgraduate AI & Computer Engineering Student

lokyin.wong2@georgebrown.ca   (437) 435-5671   Toronto, ON   /in/leowong-lyw   github.com/LeoLYW12138

Experiences

Hutchison Ports — Hong Kong

Software Developer   Aug 2024 – Nov 2024

- Developed and maintained Kubernetes-powered full-stack enterprise software and aligned feature implementations with cross-functional team to improve workflow and business reporting through Jira and Confluence.
- Proposed, developed, and demonstrated an interactive 3D visualization for container ship berthing, providing intuitive inspection capabilities and actionable metrics to enhance terminal operations.
- Presented data-backed insights and visual demos of the new feature to a 12-person group, including managers, analysts, and the product owner, using pre-recorded demos and a structured Q&A for clarity.

Century Lab Innovation — Hong Kong

IT Consultant & Fullstack Developer   Dec 2022 – Aug 2023

- Translated client needs into scalable cloud systems, strengthening data flows and analytics for educational product use cases.
- Integrated prompt engineering with OpenAI APIs to automate structured learning material—demonstrating transferable skills in LLM deployment and output validation.
- Architected and implemented a scalable AWS-based tech stack for an online learning platform (AppSync, DynamoDB, CloudFront), supporting over 200 active users across multiple schools.
- Delivered post-launch support, resolving 12+ technical issues in the first two months and driving continuous product improvement in an Agile environment using Trello.

R2C2 Ltd. — Hong Kong

Frontend Web Developer   Jan 2022 – Apr 2022

- Built a responsive web app to remotely control the Boston Dynamics Robot Dog, integrating live video feeds and precise movement control.
- Improved application load time by 25% with statistical analysis from React Profiler and Lighthouse.

HKUST Robotics Team — Hong Kong

Robocon Sub-team Robotics Software Engineer   Dec 2020 – Aug 2023

- Collaborated within a diverse 16-member team to design and build an STM32-powered competition robot.
- Compiled dependencies (e.g., OpenCV) from source and scripted deployment automation on Linux systems.
- Mentored and lectured new recruits on C/C++, embedded systems, and control systems concepts with self-made concise notes and sophisticated practical classwork.
- Demonstrated adaptability and problem-solving by mentoring diverse team members and managing embedded systems under tight deadlines.

Awards & Certificates

Participant of FSP 2025 Security Conference	2025
Cathay Hackathon Outstanding Developer Award	2022
CodeIT Suisse Team 8th Place	2022
HKSAR Government Scholarship Fund - Talent Development Scholarship	2021
Hong Kong ABU Robocon 2021 Champion	2021

Hobby & Interest

Running and Cooking