

# Lance PoKai Wang

## Software Developer

✉ [LanceWang@cmail.carleton.ca](mailto:LanceWang@cmail.carleton.ca)

📁 [Portfolio](#)

🐙 [GitHub](#)

🌐 [LinkedIn](#)

## Education

### Master of Computer Science - Specialization in Data Science

Carleton University

Graduated GPA 11/ 12. [Master's Thesis](#) in Data Science, Software Engineering, Machine Learning, and Recommender Systems

*Ottawa, ON, Canada  
Sept 2019 - June 2021*

### Bachelor of Information Management

Aletheia University

Graduated with GPA 3.8/ 4.0. [Honours Project](#) in Recommender Systems, Interactive Genetic Algorithms, and TAM analysis

*New Taipei City, Taiwan  
Sept 2014- June 2018*

## Experience

### Software Developer

CleNET Technology Taipei

- Work with **Google San Francisco Team** to ensure **ChromeOS quality** by performing **MTBF** tests.
- Developed **ML-based log analysis application**.
- Delivered insightful reports and suggestions regarding MBTF results to Google team. All test codes are reviewed and assessed by Google Team directly.

*Taipei City, Taiwan  
July 2021 - Now*

### Graduate Researcher and Teaching Assistant

Carleton University

- Hosted office hours & graded assignments, projects for the **Software Quality Assurance** and **Object-Oriented Software Design** courses
- Conducted research on GitHub Developer Project Recommendation in Prof. Olga Baysal's Software Analysis lab
- Applied research to **leverage developers' insights** regarding GitHub onboarding and provide statistical evaluations

*Sept 2019 - June 2021  
Ottawa, ON, Canada*

### Internet Engineer

Concord Information Technology Co.

- Successfully delivered a fully working novel web application for Education Department of Hong Kong
- Developed various **internet applications** for worldwide clients (e.g., APRU, Palazzari & Turries Ltd, etc.)
- Delivered an extensive report on the analysis results, presented findings to the clients, and shipped the source code

*San Po Kong, Kowloon, Hong Kong  
Nov 2018 - April 2020*

### Undergraduate Researcher

Aletheia University

- Conducted research on **exhibition occasions centralized application** and delivered a paper about our findings in Conference iCIMKC 2018.
- Developed a reusable centralized application for exhibition occasions implemented by **Java, Android**, and **GCP**.

*New Taipei City, Taiwan  
Sept 2017 - Dec 2017*

## Skills

### Interpersonal Skills

**Teamwork, Intellectual Curiosity, Excellent Leadership Communication Skills, Time Management, Motivation, Optimism, Analytical Thinking, Data-Driven Problem Solving**

### Programming

**Golang, Python, R, SQL, Java, C#, Object-Oriented Programming, HTML, Data Structures, Algorithm Thinking**

### Software Engineering

Experience with **Client-Server Applications (projects)**, Algorithm Implementation, **Git**, Deployment, Unit Testing, **Agile Development**, TDD, Writing Reports & Documentation

### Cloud & Deployment

**Azure, BigQuery**, Experience with GCP

### ML Platforms and Libraries

Keras, **SciKit-Learn, Numpy, Pandas, Matplotlib, Gensim, NLTK**

### Machine Learning

**Traditional ML** (Random Forest, k-NN, SVM), **Outlier Detection**, Optimization, Regression, **Classification, Clustering**

### Evolutionary Computing

**Genetic Algorithm** (including parallel computing, interactive pattern, fitness function design, weight distributed design)

### Data Analysis

Extensive experience with **Data Cleaning, Wrangling, Visualization, A/B testing, Predictive Modeling, Data Mining**, Handling **Unstructured Data, Algorithm Design**, Correlation Analysis

### Databases

**Extensive experience with SQL**, Architecture Design, **MySQL, MongoDB, NoSQL**

## Projects

- [PGA for GitHub Projects Recommendation](#): Leveraging **social** and **interests** for GitHub project recommendation
- [Slow Down the 23 Seconds Death Clock](#): Performed **correlation analysis** of Canada-wide collision accidents
- [Twitter Customer Feedback Analysis](#): Performed **NLP** for detecting potential issues of bank system from tweets
- [GitHub Issue Recommendation System](#) by using **expertise-driven** and **social-driven** approach
- An Exhibition Support System for hosting organizations, participating companies and clients on exhibition occasions
- Drammend - a movie recommender system by implementing **Interactive Genetic Algorithm**.