

PoKai Wang

Data Scientist

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LanceWg.com

GitHub

LinkedIn

Education

Master of Computer Science - Specialization in Data Science

Ottawa, ON, Canada

Carleton University

Sept 2019 - June 2021

Current GPA 11/ 12. [Master's Thesis](#) in Data Mining, Recommender System, and Evolutionary Computing

Bachelor of Information Management

New Taipei City, Taiwan

Aletheia University

Sept 2014- June 2018

Graduated with GPA 3.8/ 4.0. [Honours Project](#) in Recommender System, and Web Application Implementation

Experience

Graduate Researcher and Teaching Assistant

Ottawa, ON, Canada

Carleton University

Sept 2019 - June 2021

- 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 the research to **investigate developers' feedback** and provide statistical evaluations

Internet Engineer

San Po Kong, Kowloon, Hong Kong

Concord Information Technology Co.

Nov 2018 - April 2020

- Successfully delivered a fully working novel solution for Education Department of Hong Kong
- Developed various **web 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

Undergraduate Researcher

New Taipei City, Taiwan

Aletheia University

Sept 2017 - Dec 2017

- Conducted research on **exhibition occasions centralized application** and delivered a [presentation](#) about our findings in Conference iCIMKC 2018.
- Developed a reusable centralized application for exhibition occasions using **Java** and **Android**.

Website Engineer Intern

Taipei City, Taiwan

SooHooBook Co.

June 2016 - August 2016

- Developed **fruit donation platform** for Child Welfare League Foundation
- Performed **C#** and **MSSQL Server** to present high quality and easy-to-maintain websites for the clients

Skills

Interpersonal Skills

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

Programming

Python, **R**, **SQL**, **Java**, **Object-Oriented Programming**, Data Structures, Algorithm Thinking

Software Engineering

Experience with **Client-Server Applications (projects)**, Algorithm Implementation, **Git**, Deployment, Unit Testing, **Agile Development**, 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 **PGA** 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 accident of back 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
- Proposed Drammend - a movie recommender system by implementing **Interactive Genetic Algorithm**.