# Brian Hsin-Tai Wu

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## SUMMARY

A data analytics professional; recently completed the Google Business Intelligence Professional Certificate and Deep Learning Specialization certificate. Proficient in statistical modeling, programming, and data analysis. Strong collaboration and communication skills, with a proven track record of delivering actionable insights to stakeholders. Seeking to leverage expertise in quantitative analysis to drive strategic decision-making and contribute to the success of an organization.

## SKILLS

**Programming languages and tools:** Python, R, SQL, C++, Linux, Git, AWS, GCP, BigQuery, Tableau, TensorFlow, PyTorch

**Domain:** Machine Learning, Deep Learning, Quantitative Analysis, ETL, Database, Software Engineering, Financial Engineering

**Certifications:** Google Business Intelligence Professional Certificate, Deep Learning Specialization, IBM Data Science Professional Certificate

## EXPERIENCE

**Research Center for Emerging Viral Infections, Chang Gung University**                                                          **Taiwan**

Research Assistant                                                                                                              Aug 2020 – May 2021

- Developed and maintained **R Shiny dashboards** to visualize and track data from laboratory experiments
- Analyzed complex data sets to identify trends and correlations, providing actionable insights for **ML model development**
- Collaborated with cross-functional teams to gather requirements for government-backed research projects on COVID-19
- Publication: Liu, K., et al. (2022, February). *Quantifying Neutralizing Antibodies in Patients with COVID-19 by a Two-Variable Generalized Additive Model.* **mSphere**, vol. 7, no. 1. DOI: 10.1128/msphere.00883-21

**AGTOP Technology, Inc**                                                                                                        **Taiwan**

Software Engineer Intern                                                                                                        Jul 2018 – Aug 2018

- Developed chatbots using Node.js and Heroku to provide real-time solutions to customer inquiries
- Implemented **NLP**-based application to automate text analysis and sentiment analysis on incoming inquiries

## PROJECTS

**New York City Bike Share Analysis (Tableau, SQL, GCP, ETL)**                                                                    **Mar 2024**

- Extracted data from various public sources into a unified dataset through streamlined processing with Dataflow
- Performed comprehensive requirements gathering, data modeling, and refinement process to ensure the quality of report data using BigQuery
- Developed interactive dashboards and optimized data visualizations using Tableau

**Chicago Property Assessment and Price Prediction (R, Excel, AWS)**                                                              **Apr 2022**

- Utilized AWS EC2 instances and S3 object storage to manage computing capacity and secure the source code and data
- Conducted exploratory data analysis and data wrangling to ensure the quality of the property data
- Implemented gradient boosting model and Lasso regression to predict the market values for new properties

## EDUCATION

**University of Illinois at Urbana-Champaign**                                                                                    **Champaign, IL**

Master of Science in Finance (Quantitative Finance Specialization)                                                              Aug 2021 – Dec 2022

Coursework: Machine Learning in Finance, Big Data Analytics in Finance, Advanced Data Science and Python for Finance

**Chang Gung University**                                                                                                         **Taiwan**

Bachelor of Science in Computer Science and Information Engineering                                                             Sep 2015 – Jun 2019

Coursework: Data Structure and Algorithms, Software Engineering, Object-oriented Design, Artificial Intelligence