

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, Bloomberg Terminal

Domain: Machine Learning, Quantitative Analysis, ETL, Database, Visualization, 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](https://doi.org/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