

Kan Wu

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Current Visa :Stamp 1 G

Personal Profile

- Data-driven postgraduate student in Statistics & Sustainability at Trinity College Dublin with a background in Data Science and Big Data Technology and Backend Development. Experienced in Python-based data processing, statistical modeling, workflow optimization and backend system support. Experienced in transforming complex datasets into clear insights and efficient operational workflows. Eager to contribute technical and analytical skills as a Graduate Operations Technology Analyst, supporting trading operations, system efficiency and data-driven business processes.

EDUCATION

Trinity College Dublin

Dublin, Ireland

MSc in Statistics & Sustainability

09/2024 – 08/2025

- GPA:** Converted to a 2:1 Honours Degree per Irish academic equivalence standards.
- Key Course:** Advanced Linear Models, Foundation of Statistics, Data Analytics, Advanced Spatial Analysis Using GIS, Statistics and Sustainability Group Projects, Dissertation.
- Dissertation:** Using five-year (2019–2023) Dutch grassland experimental data and linear mixed-effects modeling, this study reveals synergistic effects between diverse sward mixtures and intensive management on dry matter yield, verifies soil quality and biodiversity as key mediating factors, and develops a reproducible statistical framework to inform sustainable grassland management practices.

Zhuhai College of Jilin University

Zhuhai, CHN

B.Eng. in Data Science and Big Data Technology

09/2019 – 07/2023

- GPA:** 3.46/4.0 | Top 10% in cohort
- Key Course:** Advanced Mathematics, Linear Algebra, Fundamentals of C & Python & Java Programming, Linux Operating System, Data Structure, Cloud Computing and Big data, Data Visualization, Crawler and Data Collection, Machine Learning.
- Awards:** Second Class Scholarship of Academic Year 2019-2020, May 4th Outstanding Youth for Spiritual Civilization and Outstanding League Member.

ACADEMIC EXPERIENCE

Zhuhai College of Jilin University

Zhuhai, CHN

The Application of Data Analysis of Hair Sample in Baldness Experiment: Project Researcher & Data Sample Collector

10/2022 - 01/2023

- Performed statistical and machine learning-based data analysis on hair samples to identify potential causal relationships between hair samples and baldness.
- Established a predictive model to roughly predict the risk of baldness in individuals, providing a basis for personalized treatment methods.

Development of an Online Shopping System

10/2021 - 12/2021

- Based on data from users' historical behaviour and movie classification, machine learning and recommendation algorithms are used to recommend personalised movie lists for users.
- Collected and processed the data of user behaviour and movie classification, designed and implemented recommendation algorithm models, and optimized and adjusted the system.
- Event & Administrative Support – Assisted school leadership with pre-meeting preparation, in-meeting documentation, and post-meeting summaries; drafted official speeches.

Development of an Online Shopping System: Head of the Project Team & Project Researcher

05/2021 - 08/2022

- Designed the system architecture, including database schema and back-end logic, for an online shopping system based on JavaEE.
- Implemented back-end business logic and optimized system performance.
- Developed front-end pages and ensured a seamless user experience.

WORK EXPERIENCE

Wuhan Jingmao Kunhang Construction Engineering Co., Ltd.

Wuhan, CHN

Data Analyst Intern

01/2023 - 06/2023

- Conducted market research and industry analysis in the construction engineering sector, reviewing 20+ industry reports and datasets to evaluate market size, development trends, and growth opportunities.
- Collected, cleaned, and processed 5,000+ records of market and competitor data using Python (Pandas, NumPy) and Excel, improving the efficiency and consistency of data analysis workflows.
- Built 15+ data visualizations and analytical charts using Python (Matplotlib / Seaborn) to illustrate market dynamics and competitor performance. Performed competitor benchmarking by analyzing 10+ major competitors, including pricing

strategies, product features, and market positioning.

Wuhan Geoyuan Tech Co., Ltd.

Wuhan, CHN

Back-end Developer Intern

06/2021 - 08/2021

- Assisted in backend development and system setup for internal business applications, gaining experience with the company's software architecture and supporting the configuration of development and testing environments.
- Processed and organized 3,000+ records of structured project and business data, ensuring data consistency and supporting internal data management and workflow efficiency.
- Supported the preparation and organization of geospatial datasets and coordinate-based project information, applying basic GIS concepts to assist with spatial data visualization and mapping tasks.

SKILLSET

Core Technical Skills: Data Analysis, Backend Support, SQL, Excel, MySQL, MongoDB, Pandas, NumPy, Data Visualization, Workflow Automation, System Optimization

Programming: Python, C, Java, C#, Linux.

Tools: GIS(basic), Scikit-learn.

Language: English(fluent), Chinese(native).