

Zhuotao Wang

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EDUCATION

Johns Hopkins Carey Business School

Washington, DC

Master of Science in Business Analytics and Risk Management

Jul 2025

- Courses: Business Communication, Data Visualization, Python for Data Analysis, Business Analytics, etc

University of Nottingham

Ningbo, China / Nottingham, UK

Bachelor of Science in Mathematics With Applied Mathematics.

Jun 2024

- GPA: 3.93/4.0
- Courses: Statistical Models & Methods (R studied), Scientific Method (Python studied), Mathematical Finance (Excel Studied), Probability Models & Methods, Mathematical Analysis, Linear Math, etc

PROFESSIONAL EXPERIENCE

Microsoft

Remote, United States

Business Analytics Intern, Azure Cloud Services Department

May 2024 - Aug 2024

- Collected and analyzed over 1,500 data points on Azure Cloud services using SQL and Excel, comparing performance metrics and market share against key competitors AWS and GCP to identify a 12% growth opportunity (\$64.7M).
- Led cross-functional collaboration with marketing teams, aligning business insights with strategic goals, directly influenced the Azure product feature roadmap and contributed to a 15% increase in internal project approvals.
- Implemented predictive analytics models in Python to forecast revenue, improving quarterly forecasting accuracy by 10% over previous models and reducing variance by 5%, providing more reliable data for senior management.
- Conducted a comprehensive SWOT analysis of AWS and GCP against Azure, identifying three key competitive advantages informed a new go-to-market strategy, contributing to a 4% increase in client acquisition.
- Developed interactive Tableau dashboards visualizing cloud service adoption trends, enabling real-time performance tracking for senior management, increased dashboard report usage by 25%.

Hangzhou Shuliang Technology Co., Ltd

Hangzhou, China

Data Analysis Intern, Index Department

Jul 2023 - Sep 2023

- Processed and reviewed over 50,000 data entries of organic town data using Excel VLookup and R, identifying and resolving 15% of data as outliers to ensure accuracy and completeness within one week.
- Incorporated external data sources into prediction models, boosting forecast accuracy from 75% to 82%, surpassing industry benchmarks and improving decision-making for stakeholders.
- Generated a comprehensive index report with 20+ visualizations in Tableau, leveraging data weighting and differentiation techniques to categorize over 20,000 data points.

RESEARCH

Studying Relationship between Colon Cancer and Various Variables

Nottingham, UK

Group Leader

Jan 2024 - Mar 2024

- Processed and categorized over 15,000 data entries, eliminating 2,000 irrelevant and duplicate variables, leading to a 20% reduction in data processing time and revising data quality for analysis by Excel and R.
- Applied survival analysis and regression models to predict relationships between colorectal cancer and key variables, achieving a 3% improvement in predictive accuracy compared to previous dataset's baseline accuracy.
- Collaborated with a multidisciplinary team of biostatisticians and medical researchers to interpret model results and present findings, contributing to a comprehensive report discovered significant risk factors for colorectal cancer, which was later used to inform ongoing research initiatives.

SKILLS

Technical Skills: Python (Pandas, NumPy, Matplotlib), Python (Pandas, NumPy, Matplotlib), R (Data Cleaning, Data Manipulation, Statistical Modeling), SQL (Data Querying, Database Management), Tableau (Data Visualization), Excel (Advanced Functions, Pivot Tables)

Data Analysis & Statistical Skills: Data Cleaning & Preprocessing, Exploratory Data Analysis (EDA), Statistical Modeling (Regression, Hypothesis Testing), Machine Learning, Predictive Analytics

Soft Skills: Analytical Problem-Solving, Business Communication, Team Collaboration, Time Management