

Zhou Fang

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EDUCATION BACKGROUND

University of California, Irvine, School of Information and Computer Science

09/2019 - 06/2023

Major: Business Information Management

INTERNSHIP EXPERIENCE

Microsoft Corporation – Online

07/2022 - 09/2022

Part-Time Assistant, Azure Big Data Team

- Compared three intelligent cloud platform companies (Tableau, Qlik, and Oracle) based on scoring data, conducted industry research.
- Performed data evaluation, cleaning, and normalization on Covid-19 data from the CDC's COVID Data Tracker database, detected abnormalities such as missing data, chose effective visual displays.
- Implemented a scatter plot with a linear regression line of best fit to estimate vaccine effectiveness against infection and mortality caused by omicron variants in the United States, wrote a report for the COVID Insights website.

ZheShang Securities Co., Ltd. (A Top-10 Chinese Securities Firm) – Beijing, China

06/2021 - 08/2021

Institutional Sales Intern, Mutual Fund Department

- Learned about fund sales systems, business processes, and fund products; assisted with daily customer communication and relationship maintenance.
- Applied R and Python to retrieve information, extract data, and analyze data on Wind, established fund managers' files to continually update their portfolio, recommended potential analysts for roadshows while considering these managers' investment preferences.
- Assisted with planning, organizing, and implementing marketing activities and large conferences for fund managers.

Accenture Co., Ltd. (Fortune 500) – Online

03/2021 - 05/2021

Intern Analyst, IT Consulting Department

- Conducted market research by comparing 14 attributes of 100 different models by implementing Python visualization and analyzing the electric vehicle (EV) industry with the PESTEL model, completed a preliminary research report.
- Chose Tesla, BYD, and NIO as examples to retrieve information and statistics about their four-year financial situation; analyzed their business models and key success factors.
- Wrote an industry research report on EVs to offer advice for interested clients, summarized the report, made a PowerPoint to present to the project team, earned a top 2 rating in my internship group.

China CITIC Bank – Hangzhou, China

08/2020 - 09/2020

Intern, Personal Loan Department

- Studied main business processes, requested loan documents from the personal loan center; assisted with completing retail credit procedures.
- Expanded customer marketing, identified customers' loan potential, collated accurate mortgage files.
- Visited the site of a development project called Huaqiao City to answer customers' questions and provide one-on-one credit consulting services, received more than 20 batches of customers involving 100% customer satisfaction.

RESEARCH EXPERIENCE

The Application of Stochastic Processes in Options Pricing Model

05/2022 - 09/2022

- Derived the widespread and finance-related Black-Scholes Merton (BSM) formula for quantitative modeling, applied the stochastic process by implementing layers of derivation including quadratic variation and Itô calculus.
 - Described Brownian motion's properties, highlighted its characteristics that enable traders to observe stock price trends and assess stock values.
 - Analyzed the BSM formula's limitations, evaluated the possible financial risks resulting from incorrectly applying this formula in stock trading, provided advice for traders to choose appropriate trading models to make accurate assessments and prevent pricey errors.
- *Publication:** Zhou Fang, 2022, *The Application of Stochastic Processes in Options Pricing Model*, 2022 International Conference on Applied Mathematics, Modeling Simulation and Automatic Control (AMMSAC 2022) Xi'an, China.

PRACTICAL

PROJECTS

The Implementation of a Complete Search Engine

01/2022 - 03/2022

Course: Information Retrieval

- Applied Python to scrape 37,497 valid URLs from the domain of *ics.uci.edu* (the website for the University of California, Irvine's Donald Bren School of Information and Computer Sciences), stored the crawled pages in a zip file.
- Retrieved the content of these URLs, removed stop words from and applied lemmatization on the identified tokens; constructed these tokens into an inverted index, stored the index in a json file to improve search results efficiency.
- Prompted the user for a query, looked up indexes, performed calculations based on their TF-IDF score and importance of words in HTML tags, created a ranked list of relevant query pages to enable a 95% search result accuracy.

ADDITIONAL INFORMATION

Professional Skills: Java, Python, R, SQL, MS Office