

Wenkai Wang

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Education Background

2022.09-2023.12	University of Washington	Master	Computational Finance
2018.09-2022.07	Shanghai University Of Engineering Science	Bachelor	Data Science
2020.08-2021.01	Halmstad University	Exchange	

Skills

Python, R, SQL, JAVA, C++, HTML, JavaScript ,Django, PowerBI

Internship

2022.03-2022.07	Shanghai NIO Automobile Co., Ltd	Data Analysis Intern
<ul style="list-style-type: none">Assisted the Vehicle Validation Department in completing data analysis for over 1000 vehicles' behavior data.Responded to departmental requirements, successfully crawled and processed over 5000 relevant data entries.Utilized SQL for vehicle behavior data retrieval and analysis, optimizing data query speed and saving 50% of time.Created visualizations and presented data-driven decision reports using Power BI to provide over 20 reports for leadership.		
2021.04-2021.06	Shanghai Entropy Box Technology Co., Lt	Frontend Developer Intern
<ul style="list-style-type: none">Collaborated with other team members to architect the enrollment system, registration system, point system, and agent management system for a driving school, resulting in a 30% increase in enrollment efficiency.Developed the project's 2.0 version using WXML, WXSS, and JavaScript, which led to a significant increase in monthly student enrollments, generating profits for the company.Responsible for software debugging, interface testing, and product testing, successfully resolving 90% of user-reported issues.		

Projects and Research Experiences

2021.12 -2022.06	Financial Analysis Platform based on Python	Graduate Project
<ul style="list-style-type: none">Data Crawling: Utilized Python's request library to crawl the financial reports, daily closing prices, and market prices of 300 well-known U.S. listed companies for the past five years. Collected a total of 100,000+ data points and performed effective data cleaning and processing.Fund Prediction: Implemented machine learning algorithms using sklearn to predict the stock's rise or fall trend compared to the market. Achieved an accuracy rate of 65%.Developed a visual analysis and account management system using a C/S architecture with Django and HTML, providing users with an enhanced interactive experience.		
2021.09 -2021.11	Statistics and Visualization of Starbucks Stores	Final Course Design
<ul style="list-style-type: none">Data Crawling: Used Python to crawl CSV dataset containing the number of Starbucks stores in various provinces of China from the Kaggle website, obtaining a total of 5000+ data entries.Data Transformation and Import: Utilized dataX to convert data types and import the data into MySQL for further processing, optimizing data storage and query efficiency.Data Cleaning: Implemented data cleaning and standardized fields using KETTLE to ensure data quality.Data Visualization: Utilized ELK to create pie charts for visualization, enhancing the data analysis effect.Course Design Report: Authored a course design report, achieving an A grade.		
2021.05-2021.06	Data Mining and Visualization For Iris	Final Course Design
<ul style="list-style-type: none">Developed a data mining and visualization platform successfully using a C/S architecture with frontend-backend separation.Utilized HTML bootstrap templates, Django, and MySQL to create efficient and stable structures for frontend, backend, and database components.Improved data communication effectiveness through required visual analysis of data mining results using echarts controls.		
2020.08-2020.09	Kaggle: Network Attack Detection	Final Course Design
<ul style="list-style-type: none">Data analysis, data preprocessing, data engineering, data dimension reductionimproved network attack detection accuracy through training, prediction, and evaluation using various classification methods, including decision trees and random forests.The F1 Score of the prediction was 0.9 (Top5%)		
2019.08-2019.10	Teaching Management System	Final Course Design
<ul style="list-style-type: none">Authored 30-page user requirement analysis report, providing comprehensive planning and analysis.Developed 10 modules using C++ MFC, achieving successful implementation of management functionalities.Wrote a 50-page user manual, offering detailed usage guidelines and technical support.		

Scholarship and Awards

First Prize Scholarship (Top 2%)	2019.05
Second Prize Scholarship (Top 4%)	2018.12&2019.12
Outstanding Graduate	2022.05