Guo Chenrui

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EDUCATION

Nanyang Technological University, Singapore   Aug 2021 – May 2025
Bachelor of Engineering (Computer Science) and Bachelor of Business (Business Analytics)
- Expected First Class Honours, Current CGPA: 4.69/5.00

Singapore Management University, Singapore   Sep 2023 – Jan 2024
Semester Exchange, LKCSB
- Courses: Communication Strategies, Marketing, Managerial Accounting

WORK EXPERIENCE

FWD Insurance, Singapore   May 2023 – Jul 2023
Data Analyst Intern
- Performed data extraction, transformation and loading from the cloud data warehouse via AWS Athena and SQL
- Conducted exploratory analysis of app user data using data visualisation techniques (cohort analysis, faceted boxplots) to determine the usefulness of the mobile app for policyholders of different insurance products
- Consolidated backend system knowledge related to the generation and logging of user app interactions, and produced clear flowcharts of data lineages, resulting in a 150% increase in analytics workflow productivity
- Coached 45 students on financial literacy at a CSR outreach event at Qifa Primary School, developing my communication, interpersonal, and presentation skills

ACADEMIC PROJECTS

Final Year Project Management System (FYPMS) Assignment   Mar 2023 – Apr 2023
- Modelled, designed, and developed an Object-Oriented application using Java programming language to efficiently manage FYPs, incorporating robust features such as account management, project creation, requests, allocation, transfer, and deregistration functionalities
- Demonstrated proficiency in Java through rigorous debugging and troubleshooting to identify and resolve software logic issues, ensuring a smooth and error-free application
- Created test cases to comprehensively demonstrate the functionalities of the application in a video presentation

Designing and Developing Databases – The Green World Project   Aug 2022 – Dec 2022
- Designed and implemented a MongoDB database by reformatting dirty data, dropping erroneous data, and merging similar collections to minimise database space usage and time complexities when querying
- Performed NoSQL querying and data visualisation techniques in Jupyter Notebook and Excel to derive data-driven insights on adequacy of renewable energy in powering economic growth
- Developed proficiency in the translation between NoSQL and MySQL queries

Country Clustering for Philanthropic Ventures Project   Jan 2022 – May 2022
- Conducted data analysis on datasets from UNData and World Bank to determine target locations for customised humanitarian efforts
- Self-learned and applied Principle Component Analysis, K-Means and Hierarchical clustering techniques in analysis

CO-CURRICULAR ACTIVITIES

NTU Welfare Services Club   Aug 2022 – present
Growth & Opportunities GO!Green Publicity Committee Member
- Actively assisted with the roll out of the Bags-2-Share campaign to promote the use of reusable bags in NTU
- Created Figma designs and wireframes for a potential application to manage the leased reusable bags
- Drafted EDMs and Instagram posts on Canva for an upcoming campaign Re:Food to reduce food waste

SKILLS

Languages: Proficient in English and Chinese
Computing: Python, R, C, C++, Java, MySQL, MongoDB, HTML, CSS, Javascript, PowerBI Desktop
Python Libraries: Pandas, Seaborn, Matplotlib, Scikit-learn, Tensorflow, Pytorch (for CNN and LSTM), Huggingface
Media: Adobe Premiere Pro, Adobe Photoshop, Figma, Canva