HONGZHE BI

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EDUCATION BACKGROUNDS

B.Eng. in Computer Science & Engineering   Expected Graduation: June 2024
the Chinese University of Hong Kong (Shenzhen), Shenzhen, Guangdong.
Overall GPA: 3.703/4.00
Visiting Student at University of California, Berkeley   AY 2022-2023

ACADEMIC HONORS

the SDS Dean's List Award   AY 2021 - 2022
the SDS Dean's List Award   AY 2020 - 2021
Academic Performance Scholarship: Class B   AY 2020 - 2021

RESEARCH EXPERIENCES

Carbon Emission Disclosure Information Based Ranking for Chinese Listed Company
Research Assistant of Prof. Junhua Zhao   July 2021 - June 2022
· Screened feasible companies by market value order from the CSMAR Database.
· Collected the carbon emission data from the websites of the companies and the exchanges.
· Applied the data to the pre-set grading system and ranked the companies by performance.
Link to the Published Report

Large Scale Combinational Optimization with Reinforcement Learning
Research Assistant of Prof. Tianshu Yu   November 2021 - Present
· Utilized pytorch to reproduce the code of Recurrent Independent Machine (RIM).
· Looked for realms that can apply RIM to practical application, like medical uses.

CONTEST EXPERIENCES

the Eighth China National College Students Competition on Energy Economics (CNCEE) Grand Prize for Undergraduate Group
Crawler Developer & Data Analyst & Paper Author   January 2022 - May 2022
· Developed python crawler to obtain the Environment, Social and Governance (ESG) reports.
· Filtrated data from the database and analyzed the available data.
· Constructed the PSM-DID model and utilized Stata to analyze data.
Link to the Certificate of the Prize

INTERNSHIP EXPERIENCES

Shenzhen Yimian Network Technology Co.,Ltd (An Ascential Company)
Database Testing Engineer & Product Manager   May 2022 - August 2022
· Used MySQL to verify the reliability of the crawler data and helped construct database.
· Tested the integrity of the database, and executed basic ETL operations.
· In responsible of communicating with downstream clients and analyze requirements for developers.

PROJECT EXPERIENCES

CSC3100 Data Structures and Algorithms	Huffman Encoder and Decoder
DDA2020 Machine Learning	MNIST Handwriting Classification
CSC3170 Database Systems	Simulation of Rate My Professor DB
CS61C Great Ideas in Computer Architecture	CPU & Simulation of Numpy via C
CS170 Efficient Algorithms and Intractable Problems	A General Optimal Solver of Graphs
CS188 Artificial Intelligence	The Pacman Agent