Qiaowang Li

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EDUCATION

Bachelor of Science | Computer Science & Statistics 05/2019 – 08/2022
University of Victoria Victoria, Canada

Bachelor of Science | Computer Science 09/2017 – 04/2019
University of Manitoba Winnipeg, Canada

SKILLS

Software development: PostgreSQL, C, C#, Python, SQL, NoSQL, Linux, Docker, Spark, Hadoop, DBeaver

Machine learning: Mainstream ML/DL models(RNN, LSTM, decision tree, regression analysis, TensorFlow, NumPy, pandas, Keras). Mainstream RL methods(model-based, model-free)

PROFESSIONAL EXPERIENCE

Data Analyst Intern 05/2022 – 08/2022
Canadian National Railway(CN) Edmonton, Canada
- Data analyst with a primary focus on the unit train supply chain in North America
- Improving the online invoicing system and automating the checkout process with C# and SQL
- Building Back-End API for system automation which greatly reduces the invoice processing time
- Analysing and operating a hyper-scale data warehouse [IBM Netezza]

Technical Operation Intern 06/2021 – 04/2022
SequoiaDB Remote in Canada
- Contract part-time internship
- Improved operations through consistent hard work and dedication
- Reviewed and summarized up-to-date papers regarding database and DataLake from ACM

Technical Operation Intern 12/2020 – 05/2021
SequoiaDB Guangzhou, China
- Generated detailed studies on potential third-party data handling solutions, analyzed complex data and identified anomalies, trends, and risks to provide useful insights to improve internal controls
- Designed and developed a real-time competitiveness detection tool with a team of 5[Python, GitHub] Applied data sciences technologies to facilitate decision-making[Regression analysis, R]

PROJECTS

Deep learning for Self-driving DBMS 01/2022 – present
Building a third-party independent workload forecaster for Self-driving DBMS. Forecasters can accurately predict future queries and estimated durations. This project is inspired by the CMU DB group paper and conducted as a directed study with Dr.Sean Chester

AutoCodeCompletion 09/2021 – 12/2021
Leading a team of four for the AutoCodeCompletion project, proposed a new traversal methodology that could traverse all the sub-sequences in O(n) time. Applied up-to-date approaches such as Word2Vec+RNN/LSTM and End-To-End mask modelling [BERT]

SELECTED COURSES

University of Victoria Victoria, Canada
Data Mining, Topics: Software Engineer: Data Science and Software Engineering, Security Engineering, Applied Regression Analysis, Operating Systems, Database Systems, Sampling Techniques, Numerical Analysis