RAY JIA ZHANG

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Computer Science, Year 3

TECHNICAL SKILLS AND CERTIFICATIONS

PROGRAMMING: Python, Java, C/C++
TOOLS/ENVIRONMENTS: GitHub, Jupyter Notebook, SQL/MySQL, BigQuery
DATA SCIENCE: Numpy, Pandas, Tensorflow/Keras, Matplotlib, Beautiful Soup, Selenium, Linear Algebra
CERTIFICATIONS: Machine Learning (Coursera), Neural Networks and Deep Learning (Coursera), Databases and SQL for Data Science (Coursera, IBM)

PERSONAL PROJECTS

MUSIC COMPOSITION AI (Personal) Aug 2022
- Designed and trained a multi-layered LSTM neural network in Tensorflow/Keras on Keras' Functional API to compose short MIDI clips
- Engineered an automated data pipeline to prepare 22,297 multi-featured training examples sourced from the MAESTRO dataset for network input
- Compared and contrasted two different network models to improve efficiency by 35% and performance by 65%
- Produced a dataflow diagram to organize and track data as it moved through the pipeline

USED CAR WEB SCRAPER (Personal) Jul 2022
- Implemented a web scraper to aggregate used car data from Facebook Marketplace
- Automated login and web searching process with Selenium to fully automate collection process
- Targeted specific HTML tags and data with Beautiful Soup to search and collect desired data

CRYPTOCURRENCY BANK ACCOUNT (Academic) Dec 2021
- Developed a cryptocurrency bank account in Java with fully interactive GUI built in JSwing, with an emphasis on proper and scalable OOP principles
- Engineered and deployed comprehensive unit tests in JUnit

WORK EXPERIENCE

EARLS KITCHEN + BAR Vancouver, BC
Bartender May 2022 - Current
- Produces consistent, high-quality beverages for the entire restaurant while simultaneously providing personalized service for customers seated at the bar
- Closely ensures compliance with provincial liquor legislation and regulation
- Accurately writes cash-out reports at the end of each shift and meticulously tracks waste and expenditures

EDUCATION

UNIVERSITY OF BRITISH COLUMBIA Vancouver, BC
Bachelor of Science - Year 3 Expected - 2024
Major in Computer Science

INTERESTS

- **Music**: Studied and played piano competitively for 12 years, maintaining recreationally as a creative outlet
- **Hiking:** Hiked many mountain trails in Kananaskis and Banff, now exploring trails around Vancouver
- **Language Learning:** Actively continuing to improve Mandarin, and recreationally learning Vietnamese