



## 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

**DATA SCIENCE:** Numpy, Pandas, Tensorflow/Keras, Matplotlib, BeautifulSoup, 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 BeautifulSoup 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