Catherine Zhou

Passionate in data analysis and machine learning for career & Personally interested in cooking and baking.

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3rd year CS/Data Science/Psychology/CO Student at University of Waterloo looking for a 4-month internship

Qualifications

Programming	Python (numpy, pandas, plotly, dash), C/C++, SQL, R, TEX, C#, Scala, Java
Technologies	SSIS, Linux, Bash, Git, VSCode, Microsoft Office

Education

University of Waterloo *Waterloo, ON, Canada*
Data Science/Bachelor of Computer Science *Sep. 2019 - Aug. 2023*

- `</>` Minor in **Psychology** and **Combinatorics & Optimization**.
- `</>` **Relevant courses**:
  Computational Statistics & Data Analysis (92%), Data Structures & Migration (96%)
  Intro to Database Management (on-going), Intro to Machine Learning (on-going), Applied Cryptography (on-going)
- `</>` Major Average: **95%**, Faculty Average: **94%**, Cumulative Average: **92%**

Work Experience

Data Engineering Co-op *Brampton, Ontario, Canada*
Loblaw Inc. *Incoming*

- `</>` Use **Google Cloud Platform** to support data ingestion, data transformations, data cleansing and data delivery.
- `</>` Build and execute automation scripts for **data pipelines** using **IntelliJ**, **Java** and Cucumber.
- `</>` Analyze data-related technical challenges to solve business issues and improve data reliability, efficiency and quality.

Software Developer Co-op *Toronto, Ontario, Canada*
Bank of America Merrill Lynch *September, 2021 - December, 2021*

- `</>` Work in the **ETL team**, responsible for handling data received from clients and transferring it to other teams.
- `</>` Develop a **dashboard** that **visualizes data** using **dash** along with other **Python** libraries such as **NumPy** and **Plotly**.
- `</>` Implement advanced features such as independent browser sessions to the dashboard.

ETL Quality Assurance Analyst Co-op *Toronto, Ontario, Canada*
Teranet Inc. *January, 2021 - April, 2021*

- `</>` Develop data migration scripts using **T-SQL and SSIS** to migrate multiple database systems.
- `</>` Work with teammates to modify scripts in **T-SQL** and enhance the testing system at all stages of the **ETL** cycles.
- `</>` Use **C#** to fix issues within the database during data migration process.

Relative Projects/Experience

OS/161 *September, 2021 - December, 2021*

- `</>` The project is the *class project* in CS 350, an instructional operating system along with System/161, an execution environment.
- `</>` Building on the given code, implement features such as **synchronization**, **system calls**, and **virtual memory system**.

Settlers of Catan Game Development *November, 2020 - December, 2020*

- `</>` The project is the *final group project for CS 246*, a variant of the game Settlers of Catan and developed through **C++**.
- `</>` We use the **MVC structure** and other design patterns such as **template method** and **factory method** to implement this game.

Personal Website *May, 2020 - Present*
Work with unfamiliar languages HTML, YAML, and CSS, and build the website independently.

University of Waterloo Student Marker TA
Mark assignments for MATH 239 (Intro to Combinatorics) and MATH 237 (Calculus 3)

Marketing Intern *Shanghai, China*
Shanghai Daozhi Network Technology Co., Ltd *July, 2017 - August, 2017*

- `</>` Operate official accounts at multiple **online social platforms** and learn **marketing strategies** to manage customers.
- `</>` **Evaluate** the official website of luxury brands on how to enhance customer experience.
- `</>` Apply **cold calling** to reach potential customers and advertise the product.