

MARY ZHAO

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EDUCATION

University of Toronto

Sep 2022 - May 2026 (Expected)

Bachelor of Science in Computer Science and Data Science, Math Minor

Courses: Calculus II. Linear Algebra II. Microeconomics. History and Philosophy of Science and Technology. Statistical Reasoning. Data Structures. Data Science I. Probability and Statistics. Software Design.

Achievements: Albert College Entrance Award. Dean's List Scholar.

SKILLS

Programming Languages:	Python. SQL. Java. C/C++. JavaScript. HTML/CSS. R. Assembly.
Tools & Technologies:	Git/GitHub. VS Code. JetBrains. MongoDB. Excel. Power BI. JupyterHub. Tableau.
Frameworks & Libraries:	JUnit. Pandas. NLTK. NumPy. Matplotlib. Plotly. Scikit-learn. NLTK.
Soft Skills:	Technical writing. Adaptability. Project management. Creative problem-solving. Continuous learning.

LEADERSHIP EXPERIENCE

Digital Media and Communications Coordinator

Sep 2023 - Present

Vic Arts and Culture Commission

Toronto, ON

- Planned and advertised annual art and culture celebration, attracting 317 participants.
- Designed engaging social media posts using Figma, increasing engagement by 25%.

Orientation Leader

Sep. 2023 - Sep. 2023

Computer Science Student Union

University of Toronto

- Collaborated with the CS Orientation Team to organize welcoming events and activities for new and existing Computer Science students.

Finance Director Executive

Sep 2021 - Jun 2022

DECA Ontario

Toronto, ON

- Mentored students in business presentation, critical analysis, and finance exam writing skills.
- Managed team project timelines and budgets for a case business proposal.

PROJECTS

Visualizing Animal Trees — *Python, Excel, APIs, Matplotlib*

Mar 2023 - Apr 2023

- Analyzed and processed animal tree relationships from official databases, managing over 1,000,000 entries.
- Implemented Python algorithm for calculating similarity scores between tree types, aiding data interpretation.
- Managed version control and collaboration using Git for seamless teamwork.

SmartSudoku — *Java, MongoDB, REST APIs*

Sep 2023 - Dec 2023

- Enhanced SmartSudoku UI with MongoDB integration for efficient data access.
- Developed REST API for leaderboard and Spotify integration, improving user experience.
- Utilized Java Swing GUI for optimized usability and responsiveness.

Iron Abundance of Red Giant Stars — *R, JupyterHub*

Feb 2023 - Apr 2023

- Conducted data analysis on APOGEE database to explore star age and iron abundance correlations.
- Presented findings through conference-style poster and technical report.

MediBridge — *Figma, Market Research*

March 2024 - March 2024

- Designed paper prototype on Figma for MediBridge, a platform aimed at improving communication between doctors and nurses.
- Conducted market research to identify user needs and preferences, informing product design decisions.

Twitter Bot Detector — *Python, Skikit-learn, Natural Language Processing*

March 2024 - March 2024

- Used machine learning models to predict whether or not a tweet was made by a bot.
- Cleaned and prepared dataset for training. Explored various methods in order to get the best model.
- Analyzed and communicated results in a report.