

Doris Zhang

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EDUCATION

University of British Columbia

September 2023 - May 2027

B.Sc., Major in Computer Science (GPA: 4.20/4.33)

- Relevant Courses: Data Structures and Algorithms, Systematic Program Design, Models of Computation, Software Construction (Data Structures, Object-Oriented Design, Debugging, Testing)
- Awards: Centennial Scholarship Entrance Award (\$24,000), Dean's List (2023), 2 x CS Project Hub Award

TECHNICAL SKILLS

Programming Languages: JavaScript/TypeScript, Java, Python, CSS, HTML, SQL, C++, Racket

Frameworks and Libraries: React, React-Native, Express.js Node.js, NumPy, Pandas, PyTorch, Matplotlib, Scikit-learn, Flask, JUnit, Java Swing

Tools/Environments: Git, VSCode, Eclipse, PostgreSQL, PyCharm, IntelliJ, Figma

WORK EXPERIENCE

AI4Good Lab

Toronto, ON

Machine Learning Fellow

May 2024 - Present

- Selected as **one of 90 trainees** to collaborate on social good AI projects, in association with Mila, Vector, Amii, DeepMind
- Collaborated with **teams of 5 and industry mentors** to ideate, design, and develop product solutions to social issues
- Awarded the **AI4Good Accelerator Award** from the Toronto Cohort, recognizing the team's AI project for exceptional innovation and impact; facilitated project extension with support and resources from the Lab network

PROJECTS

FastFeasts 🍴 | *JavaScript/TypeScript, Express.js, Node.js, PostgreSQL, SQL, React-Native, Expo, Edamam API*

- Mobile app that allows users to search recipes by filters, save favourite recipes and share images meal creations
- Integrated the **Edamam API to fetch and display recipe data** by making dynamic API queries based on 5+ user-selected filters, such as ingredients, dietary preferences, preparation time, meal type, cuisine type and more
- Implemented **PostgreSQL relational databasing** to organize and manage user profiles, posts and saved recipes

Brig.ai 🤖 | *JavaScript, React, HTML/CSS, Python, Flask, Pandas, NumPy, Sklearn (AI4Good)*

- Processed **1000+ symptom data points** for reproductive conditions, using model-based selection to remove redundancy
- Trained **Adaboost and Logistic Regression models** to predict PCOS and endometriosis, with **accuracies of 85-93%**
- Implemented **K-means clustering with 5 clusters** to map symptoms to the most effective group of diagnostic tests

Mr. Monkey Childwork Toolkit 🐒 | *Java, Java Swing, JUnit*

- A one-stop application containing resources for leaders, such as teachers and camp counsellors, working with children
- Developed an **activity database with 30+ activities** for children, parsing JSON data into Activity objects to enable customizable filtering by number of children, energy levels, duration, skill requirements, and indoor/outdoor settings.
- Implemented a seating chart and group generator that enables users to form groups based on the number of groups or children per group, while considering user-specified preferences for children who should not be grouped together

LEADERSHIP

Development and Alumni Engagement Ambassador

Vancouver, BC

University of British Columbia

September 2023 - Present

- Promoted UBC's student-success campaigns to raise funds and increase student access to financial resources
- Connected with UBC Alumni and Donors to promote their continued engagement with UBC
- Represented scholarship students in a campaign video, **garnering 1000+ engagements** across various platforms

FIRST Robotics Team Captain

London, ON

Sir Frederick Banting Secondary School

September 2022 - June 2023

- Overlooked and managed a **team of 40 students**, delegating tasks to executives and organizing team outreach events
- Empowered women's exploration and leadership in STEM, introducing the school's first Girls' Hour of Code
- Presented and pitched the team to worldwide companies, securing over **\$8000 in sponsorship** for the 2023 season
- Led the team to our **first District win** at University of Western Ontario, **surpassing 32 other teams**