

NATANIELLA OGOGO

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EDUCATION

Bachelor of Science in Computer Science, Minor in Psychology
University of Manitoba

Aug. 2020 - Present
Expected graduation: October 2025

Interests: Full Stack Development, Web Development, UI/UX Development

RELEVANT COURSEWORK

- Data Structures and Algorithms
- Analysis of Algorithms
- Distributed Computing
- Object Orientation
- Databases Concepts & Usages
- Human-Computer Interaction
- Software Engineering

TECHNICAL SKILLS

Languages: Java, JavaScript, C, C++, Python

Databases: MySQL, SQLite

Web Technologies: HTML5, CSS3, Vue.js

Tools & Technologies: Git, Figma, Visual Studio Code, IntelliJ IDEA, Command Line (Bash/Terminal)

WORK EXPERIENCE

Machine Learning Fellow

AI4Good Lab (Remote)

May - June 2024

Montreal, QC

- Acquired foundational knowledge in neural networks (e.g., RNNs, LLMs, and CNNs).
- Built machine learning pipelines using PyTorch and NumPy, applying them to healthcare data for predictive modeling and optimizing performance through hyperparameter tuning.
- Developed a website showcasing machine learning models (Random Forest for symptom parameter analysis, CNN for ultrasound image processing) using Vite, React, and TypeScript.
- Collaborated virtually with a team to present technical work and receive mentorship from industry and academic professionals, improving project outcomes and refining technical skills.
- Prototyped app features using Figma, contributing to the design of an AI-based healthcare app that raises awareness and aids in diagnosing PCOS.

PROJECTS

World Hub E-commerce Website

COMP 3020: Human-Computer Interaction 1 Project

Sept. - Dec. 2024

- Collaborated with a team to design and develop a vertical prototype for an e-commerce website specializing in international snacks and drinks, focusing on a customizable subscription box feature. Personally styled and built the subscription box process, home page, and product pages using HTML, CSS, and JavaScript, integrating hardcoded content to create a personalized user experience.

OvaTech AI

AI4Good Lab Project (Highly Competitive, Sponsored by Mila and Google DeepMind)

May - June 2024

- Contributed as a key team member in developing a website for OvaTech AI, leveraging Vite, React, and TypeScript to showcase machine learning models for PCOS diagnosis. Led the implementation of the CNN model for ultrasound image analysis using Python and developed a Figma demo to visualize the user experience. Selected for this prestigious program backed by Mila and Google DeepMind, alongside partners like CIFAR, AMII, and Vector Institute.

Netflix Data Modeling and Query System

COMP 3380: Database Concepts & Usage Project

Jan. - Apr. 2024

- Worked collaboratively with a team to design and implement a terminal-based relational database integrating five Netflix datasets. Led the development of SQL-based data management and Java-based query execution, enabling efficient analysis of user interactions, movie ratings, and content relationships.

INVOLVEMENT

Website Committee Member

Oct. 2024 - Present

UofM Women in Computer Science

- Collaborating with a team to build a new website for UMWICS, focusing on improving usability, design, and functionality using HTML, CSS, JavaScript, and Vue 3 Composition API.
- Contributing to the development of dynamic, user-friendly web features to enhance the club's online presence and engagement.
- Utilizing Git for version control to ensure smooth teamwork and version management throughout the project lifecycle.

Treasurer

May 2022 - Apr. 2024

UofM Women in Computer Science

- Managed the club's budget, optimizing expense tracking and cutting costs through better vendor negotiations.
- Raised \$4,000 CAD over two years by organizing fundraising initiatives and securing sponsorships from industry leaders like AWS and Ubisoft.
- Aligned efforts with the Computer Science Student Association and .devClub to organize events that fostered connections across the student community, including technical workshops and career networking sessions.
Coordinated flagship events like the UMWICS Mentor Mingle, collaborating with AWS in 2022 and Ubisoft in 2023 to connect UMWICS members with industry professionals.