Emily Medema

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Education

Queen's Univeristy, Kingston, ON
September 2022 - Present
MSc in Computing
Focus: Ethics and Artifical Intelligence/Machine Learning

University of British Columbia, Kelowna, BC
September 2017 - April 2022
BSc Honours in Computer Science, Minor in Data Science
GPA: 4.33/4.33

Research

Evolving and Analyzing Misinformation
June 2023 - Present

Automatic Feedback Evaluation
November 2022 - Present

Tracking Injustice Data Collection and Scraping
April 2023 - September 2023

Ethical Use of Machine Learning in Medicine
September 2022 - June 2023

Analysis of Agriculture Sensor Data
September 2021 - April 2022

Mixture Models and Applications
January 2021 - April 2021

Intermet of Things Patient User Experience Platforms
September 2019 - April 2020

Skills

Language – Fluent in English, Intermediate in French

Programming Languages – Java, Python, JavaScript (including React and Node), SQL, PHP, R, HTML/CSS, VBA, Swift, MIPS Assembly, C, C#, C++

Computer Skills – Artificial Intelligence, Machine Learning, Evolutionary Computing, Data Mining, Microsoft Office, Data Analytics, Database Design and Administration, Web Development, Mobile App Development, Software Development, Project Management, Analysis of Algorithms, and Human Computer Interaction.

Volunteering

President
April 2021- May 2022
Quantitative Sciences Course Union, Kelowna, BC

Vice President /VP Finance
April 2018-April 2020
Quantitative Sciences Course Union, Kelowna, BC

Awards

NSERC Scholarship Recipient
2023 - 2024

Vector Scholarship in Artificial Intelligence Recipient
2022-2023

Honourable Mention for Graduating Computer Science
2022

Irving K. Barber Women in Technology Scholarship
Scholarship
September 2018-2019

Employment

Teaching Assistant
January 2023 - December 2023
Queen's University, Kingston, ON
- Taught a seminar and marked assignments for CISC 497
- Coordinated a team of 7 Teaching Assistants for CISC 365
- Marked and gave feedback to students on assignments and tests, which involves knowledge on algorithmic analysis, designs, and proofs.

Teaching Assistant
September 2019 - April 2022
University of British Columbia, Kelowna, BC
- Coordinated a team of 7 Teaching Assistants for COSC 121
- Provided additional instruction and support to students in the Computer Science faculty within laboratories for COSC 111 and DATA 301 as well as tutorials for COSC 221.
- Marked and gave feedback to students on assignments and tests, which involves knowledge on the language, syntax, and occasionally proofs.

Digital Systems Student
September 2020 – August 2021
Teck Resources, Calgary, AB
- Developed UI/UX design for web and mobile applications.
- Scripted and implemented database schema alignment across 6 sites.
- Automated security and testing scripts with Selenium and SonarQube.
- Performed Drilling and Blasting Systems (DABS) support, quality assurance, bug-fixes.

Software Developer
May 2020 - August 2020
Saturn Animation Studios, Kelowna, BC
- Developed a web application, Kukarella, that provides an online Voice-to-Text, Text-to-Voice platform. Primarily working in React.js, Node.js, Firebase, and AWS.
- Developed a new payment model, fixed 10 critical bugs, and performed testing.

Research Assistant
September 2019 - April 2020
University of British Columbia, Kelowna, BC
- Developed a mobile application to integrate the Internet of Things and better data visualization, visioning and analytics algorithms into Patient Health Platforms to improve patient experience.

Service Desk Intern
May 2017 – August 2019
Tolko Industries Ltd., Vernon, BC
- Offered solutions to operations issues for users of Tolko's enterprise system and various applications such as Microsoft Office, working closely via phone, email, live chat, and web teleconference with end users.