

# Sheena Verana

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## EDUCATION

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**University of Ottawa**

September 2019 – April 2024

**BASc in Computer Engineering, Engineering Management and Entrepreneurship Option (CO-OP)**

- Relevant Courses: Introduction to Software Engineering, Data Structures and Algorithms, Analysis and Design of User Interfaces

## SKILLS

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**Languages:** Python, C#, Java, JavaScript, HTML, CSS

**Technologies/Frameworks:** React, .Net Core, Firebase DB, Azure Cosmos DB, Azure Databricks, REST API, JSON

**Developer Tools:** Git, Eclipse, Visual Studio, Android Studio, Jira, Confluence

**Design:** Figma, Adobe XD, Adobe Illustrator, Adobe Photoshop, Adobe InDesign

## WORK EXPERIENCE

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**Information Technology Developer** | Canada Revenue Agency

September 2022 – December 2022

- Executed supervised and unsupervised ML experiments on public datasets, gaining hands-on experience in machine learning concepts
- Obtained the Microsoft Azure AI-900 certification, improving understanding of fundamental principles of machine learning, responsible AI, and considerations for working with data
- Built a machine learning application using Python and Flask that predicts loan eligibility, involving data preprocessing, feature engineering, and model training
- Acquired the Professional Scrum Master (PSM I) certification resulting in successfully leading a team of 10 during scrum meetings while maintaining a Jira scrum board to track progress and impediments

**Junior Software Developer** | Transport Canada

June 2021 – April 2022

- Contributed to the development of an ASP.Net Core web application and REST APIs using C# as a part of the digitalization of the certificate issuing process
- Enhanced REST API endpoint calls to be 20% more efficient by implementing in-memory caching of JWT tokens
- Developed new endpoints to support the use of embedded signing of documents, resulting in increased functionality and two ongoing directorate projects to incorporate the API
- Successfully implemented certificate templates using HTML and CSS to ensure compatibility with an external document signing API
- Ensured full accessibility compliance of generated digital certificates and client-facing website through WCAG 2.1 testing
- Gained experience with the Model-View-Controller (MVC) software design pattern
- Actively performed bug fixes, implemented unit tests, wrote documentation and presented demos, ensuring application quality and functionality

## PROJECTS

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**Smart Guardian Fall Detection System**

- Developed an embedded system using a Raspberry Pi, camera, display screen, and machine learning to detect falls in real-time
- The system converted raw video footage into individual frames and used the OpenCV library and machine learning techniques to analyze the frames
- The system's user-friendly interface displayed the results and alerted the necessary parties in the event of a fall detection

**Loan Eligibility Web Application**

- Built a flask web application that uses machine learning to analyze user information and accurately determine their eligibility for a loan based on factors such as income, employment and credit history

**Government Service Android Application**

- Developed an app using Java, Android Studio and Firebase DB that enables users to register for basic services offered by a government branch with a separate user, admin and employee interface

## LEADERSHIP & VOLUNTEER EXPERIENCE

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**Vice President of Development** for Women in Science and Engineering (WISE) uOttawa Chapter, **Graphic Designer** for Hack the Hill, **Design Team Lead** for uOttHack, **Vice President of Finance** for the Filipino Students' Association of the University of Ottawa (FilSAUO), **Second Year Computer Engineering Student Representative** for the Engineering Students' Society (ESS)