

Bhavani Potdar

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EDUCATION

University of Waterloo

Waterloo, ON

BASc Honours Computer Engineering — Academic Standing: Distinction

Present

- **Relevant Courses:** Programming in C++, Programming in Python, Digital Logic and Circuit Systems, Design with Micro-controllers.

SKILLS

Programming Languages: Python, C++, Java, JavaScript, HTML5/CSS3

Frameworks: React, Flask, TensorFlow, Scikit-learn, Pandas, NumPy, NLTK, RESTful APIs, Blockchain Architecture

Platforms: Git, Github, Gitlab, Microsoft Office, Figma, Jupyter Notebooks, Visual Studio Code, Graphic Design Tools

PROJECTS

Blockchain Wallet D-App | *JavaScript, ethers.js, MetaMask, Ethereum Sepolia Testnet*

Present

- Developed a **decentralized web application** using JavaScript and ethers.js to connect MetaMask wallets and facilitate Ethereum transactions on the Sepolia Testnet.
- Implemented wallet connection, transaction signing, and real-time **blockchain** interaction.

Blockchain Message Storage App | *Solidity, JavaScript, ethers.js, Ethereum Sepolia Testnet*

Present

- Built a **decentralized** application (DApp) enabling users to store and retrieve text messages immutably on the Ethereum Sepolia Testnet using smart contracts.
- Developed and deployed a Solidity smart contract to handle string storage and retrieval, and connected a frontend interface using ethers.js.

PlateCheck (Winner of UWaterloo Hackathon) | *Python, TypeScript, React*

November 2024

- Engineered a **Python algorithm** that incorporated image detection to analyze ingredients from images and tailored recipe suggestions.
- Designed and implemented a user-friendly front-end website using **TypeScript, React, and Figma** to deliver insights in an accessible format.

Podcastify | *Python3, JavaScript, Flask, React, HTML, CSS, SpaCy, NLTK, Voiceflow*

January 2025

- Developed a **full-stack Python application** that generated summaries of podcasts using the Flask framework and **NLP libraries** like SpaCy and NLTK.
- Implemented a chatbot feature powered by an online Voiceflow **API**.

Using Machine Learning to Diagnose Hypothyroidism | *Python, NumPy, Pandas, Matplotlib*

May 2023

- Developed and trained a decision tree classifier using Python **Scikit-learn** to predict hypothyroidism with **97.5%** accuracy.
- Collected and curated a dataset to train the machine learning model using **Pandas**.

EXPERIENCE

Student Ambassador

September 2020 – June 2024

Hackergal

Canada

- Organized, promoted and presented at initiatives like **nation-wide hackathons** and **webinars** that worked to inspire girls to explore computer science and technology.
- Developed coding tutorials and projects designed to **teach programming** to over **1,000** girls across Canada.

Student Researcher

September 2023 – June 2024

The Junior Academy - New York Academy of Sciences

Global

- Worked with other fellow young scientists across the world to find **innovative solutions** addressing real world challenges.
- Built connections with **researchers and STEM professionals**, gaining insights into advanced scientific methodologies and research.

Global STEM Accelarators

August 2023 – October 2023

AFS Intercultural Programs and University of Pennsylvania

Global

- Selected as a STEM scholar, gaining expertise in **sustainable design**, intercultural collaboration, and community-driven innovation.