

Krishna Mehta

k54mehta@uwaterloo.ca | 647-915-1057 | linkedin.com | github.com

TECHNICAL SKILLS

Languages: Python, C++, Java, HTML/CSS, JavaScript, Swift, MATLAB, SQL

Tools/Frameworks: React.JS, Bootstrap, Git, MongoDB, Pandas, NumPy, Plotly, Tkinter, Flask, PowerBI

Design: Solidworks, AutoCAD, Figma, Canva, Tinkercad

WORK EXPERIENCE

Software Developer (Co-op)

Jan 2025 - Present

University of Waterloo - CEE Department

Waterloo, ON

- Developed and optimized 20+ responsive course features to improve participation and redesign the virtual educational experience for **1000+ students** using **HTML, CSS and JavaScript**.
- Conducted and analysed **20+ user-tests** while integrating website enhancement recommendations that focused on accesibility, which improved the front-end design and UI/UX, increasing average session duration rate by **30%**.
- Optimized code and improved **accessibility** by integrating ARIA labels and alt tags across all applications.

Director - STEM Department (Part-time)

Aug 2023 - Aug 2024

City of Brampton

Brampton, ON

- Designed lessons to run coding workshops for students and taught them to build games and applications using **Python, JavaScript, and Java**.
- Managed **10+** STEM instructors, facilitating mentorship sessions, which increased productivity by **20%**.
- Increased the student sign-up headcount by **50+** by implementing a new hands-on STEM curriculum involving collaborative team-based projects, problem-solving, and experiential learning to aid with the students learning.

Web Developer (Internship)

Jun 2023 - Dec 2023

The Coding Foundation

Remote

- Designed **10+** mockups for all key aspects of a functioning website, including the Navbar, Hero Section, and Footer, ensuring a cohesive and user-friendly design.
- Developed and optimized **100%** of the website's functional components using **React.js**, focusing on modularity, reusability, and performance.

PROJECT EXPERIENCE

Mission Complete - HackHer Queens | Python, Flask, Javascript, HTML/CSS, GCP

March 2025

- Developed an **AI-powered** Chrome extension that blocks distractions by analyzing browsing behavior in real time.
- Built a **Flask backend** with Gemini AI to classify web activity and dynamically monitor and redirect tabs.
- Implemented a context-aware Pomodoro timer with asynchronous JavaScript execution for seamless session tracking.

Fur and Friends - ElleHacks | MongoDB, React.js, Node.js, Javascript, TensorFlow.js, spaCy

Feb 2025

- Created a **full-stack** web application to connect the elderly with volunteers and therapy pets to reduce loneliness.
- Integrated **AI-driven matching** using TensorFlow.js, spaCy NLP, and k-NN for interest-based recommendations.
- Built a frontend with **React.js** and a backend with **Node.js/Express**, and **MongoDB**.

Save, Don't Stress - Hack Canada | React.js, CSS, Node.js, Express, GCP

Feb 2025

- Developed a full-stack web app to help users find the cheapest grocery items near them.
- Used **React.js** for frontend and **Node.js/Express** for the backend, integrating **Google Maps API** for store locations and **Google Gemini Language Processing API** to estimate prices.
- Implemented RESTful APIs, Axios, and regex-based JSON extraction for data flow and AI responses.

Consulting: Walmart, Amazon, Switch Health | Figma, Tinkercad, Microsoft Office

Jan 2023 – Dec 2023

- Advised companies on **software solutions** for sustainability, innovation, and technological growth, designing UI/UX prototypes in Figma and IoT prototypes with Tinkercad.
- Recommended AI, AR/VR, and cloud solutions to improve operations in medical and consumer sectors.

EDUCATION

University of Waterloo

Waterloo, ON

Systems Design Engineering (Bachelor of Applied Science)

Present - Jun 2029

Relevant Courses

Data Structures and Algorithms, Linear Algebra, Digital Systems (microcomputer interfacing, circuits, logic), Solidworks