

KRISH PRAJAPATI

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SKILLS

Programming Languages	C++, Java, JavaScript, HTML / CSS, Python
Technologies and Protocols	STM32, ESP32, Arduino, UART, I2C, SPI
Tools and Software	Git, Linux, React, Node.js, Express.js, MongoDB, VS Code, IntelliJ, MS Office

EXPERIENCE

Teaching Assistant Sep 2021 - Jun 2024
Kumon Learning Center, Brampton, ON

- Supported 200+ students in math and reading, fostering independent problem-solving skills.
- Recorded and Analyzed performance data in Excel, driving strategies that ranked the center in North America's top 2.

VEX Robotics Team Member Sep 2022 - Jun 2024
High School, Brampton, ON

- Programmed robot behavior using C++ on VEX Cortex microcontrollers, integrating ultrasonic rangefinders, gyroscopes, and encoders.

PROJECTS

Club Coordination and Interaction Portal (GitHub) May 2024
Node.js, Express.js, HTML/CSS, JavaScript

- Implemented a database system using Node.js to streamline student-teacher interactions for school clubs.
- Ensured efficient and secure data handling by implementing user authentication and access control.

Autonomous Plant Monitoring System (GitHub) November 2024
C++

- Developed a multi-microcontroller system using STM32, integrating UART and I2C communication protocols for sensors, alarms, and LCD modules.
- Utilized PuTTY for real-time serial communication and data monitoring.

Matrix Operations Calculator (GitHub) December 2025
JavaScript, HTML/CSS

- Created a web application to perform matrix operations (dot product, RREF, and transpose) using 2D arrays.
- Designed an intuitive interface for academic use in a Linear Algebra course.

Linked List Task Manager (GitHub) January 2025
JavaScript, HTML/CSS, MERN Stack

- Designed a React web application to organize, store, and delete daily tasks.
- Implemented a MongoDB database for task storage and efficient data retrieval.

AWARDS AND ACHIEVEMENTS

- **DECA Provincial Winner** April 2023
Placed 1st in DECA's PMFL Event, where I played a key role in developing Undebtify, a digital financial literacy platform with over 200 users
- **FBLA Top 10 Finalist** June 2023
Placed in the top 10 in FBLA's Coding and Programming event at the Canadian National Leadership Conference

EDUCATION

University of Waterloo Expected 2029
Candidate for BAsC in Computer Engineering, Co-op
Relevant Coursework: [ECE150] Fundamentals of Programming