

CHAITANYA PATEL

Milton, ON

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Education

University of Waterloo

Honours Computer Engineering, Co-op

September 2025 – Present

Waterloo, ON

Atmiya Vidya Mandir - International Residential School for Boys

High School Graduate

Graduated March 2025

Gujarat, India

Relevant Coursework

- Classical Mechanics
- Fundamentals of Programming
- Engineering Profession and Practice
- Linear Algebra for Engineering
- Calculus 1 for Engineering
- Project Studio
- Communication in the Engineering Profession

Skill Set

Programming & Web Development: Python, C++, HTML5, CSS3, basic JavaScript, Front-end web development, responsive layouts, web content creation

Cloud Platforms: Microsoft Azure (fundamentals: cloud concepts, basic services)

Hardware & Electronics: Digital Storage Oscilloscope (DSO), Rectifier Circuits, Circuit Analysis

Tools & Productivity: VS Code, CodePen, Microsoft Whiteboard, Microsoft Excel, Canva, Wix.com, Gamma

Interpersonal & Leadership: Teamwork, team leadership, event logistics and coordination

Projects

Digital Bookshelf | Content Lead | Supported by NITI Aayog, Govt. of India

June 2024 – August 2024

- Launched a student-focused digital publishing site that hosted 5 travel eBooks and attracted 20 unique visitors within 1 week through targeted social media campaigns.
- Helped configured and customized a Wix.com site (navigation, responsive sections, basic SEO) to deliver a mobile-friendly reading experience for both desktop and smartphone users.
- Created marketing assets including posters, flyers, and business cards to drive user engagement.

Front-End Web Development | HTML & CSS | Apna College

March 2024 – October 2024

- Developed 4 responsive web pages for conceptual brands using HTML5 and CSS3, ensuring clean, elegant layout structures.
- Translated numerous conceptual client requirements into functional interfaces, focusing on code readability.
- Implemented various CSS styling techniques, including margins, padding and positioning, to modify page layouts.

Rectifier Circuit Design & Analysis | Atmiya Vidya Mandir

January 2024

- Built and tested a diode rectifier circuit to convert AC to DC, analyzing signal ripple and smoothing effects using various capacitor values.
- Utilized a Digital Storage Oscilloscope (DSO) to visualize waveforms and optimize efficiency.

Python Computing Projects | CodeHS

March 2023 – October 2023

- Earned “Intro to Computer Science in Python” certification, mastering foundational concepts including modular programming, data types, and algorithm design.
- Programmed algorithmic scripts utilizing Python turtle library to generate 2D vector graphics and geometric patterns based on the coordinate system.
- Developed modular scripts using Python, optimizing algorithm efficiency through nested loops and reusable functions.

Leadership Experience

Event Logistics Lead

Atmiya Vidya Mandir

April 2024

Gujarat, India

- Designed a structured seating plan for 300+ attendees using Microsoft Excel, optimizing venue flow for graduates, parents and guests.
- Collaborated with the design team to execute stage layouts and venue decoration.
- Delivered a successful large-scale event under high-pressure conditions by prioritizing critical tasks and facilitating communication between faculty and student committees.

Sports Team Captain

January 2023 – October 2024

Atmiya Vidya Mandir

Gujarat, India

- Captained the House Volleyball team as the main spiker, leading the team to the championship title by maintaining composure and motivating the team under pressure.
- Selected as Alternate Captain for the school's Under-19 Volleyball & Table Tennis teams, representing the school in the regional CBSE competitions against teams from over 70 schools.