

# HET PATEL

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## Technical Skills

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**Languages:** Python, C/C++, JavaScript, HTML/CSS

**Tools/Frameworks:** Flask, SQLite, SQLAlchemy, Heroku, Netlify, Git, Firebase, SolidWorks, Figma

## Education

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**University of Waterloo**

Bachelor of Applied Science - **Systems Design Engineering**

Sept 2021 - Apr 2026

Waterloo, ON

- Faculty of Engineering Scholarship: **Awarded \$5500** based on academic/extracurricular performance
- Relevant Courses: Digital Computation (C/C++), Intro to Design

## Technical Projects

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**Foodify (Food Tracker)** 🔗 | Python, Flask, SQLAlchemy, HTML, CSS, JavaScript, Heroku

- Built and hosted a **CRUD** web app on **Heroku** to track daily nutrient intake and dietary goals
- Developed a **Flask backend** to manage app routes and process **HTTP requests** through **REST API**
- Configured an **SQLAlchemy database** to store food logs and track user progress/goals
- Implemented an engaging user-friendly **frontend** while ensuring **device responsiveness** using **HTML/CSS/JS**

**Block Buddy (Social Media Blocker)** 🔗 | JavaScript, Chrome Storage Sync API, HTML, CSS

- Developed and launched a **web extension** on the Chrome Web Store to increase productivity by blocking social media websites during study/work hours
- Integrated **Chrome Storage Sync API** within a **JavaScript backend** to save and sync user schedule and preferences across all devices
- Designed a practical **frontend** guided by **design principles** using **HTML/CSS/JS**

**Wellmatic (Water Well Schematic Planner)** 🔗 | Python, Excel

- Built a **CLI tool** to create customizable schematics of water well systems for a hydrogeologist consulting firm
- Implemented an option to export individual water well data and schematic plan to **Excel and Notepad using File I/O**
- Integrated ability to include drawdown values (flow rate, transitivity, aquifer storage coefficient) for each well

## Leadership Experience

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**President/Founder**

CBSS Computer Science Club

Oct 2019 - May 2021

Brampton, ON

- Supervised weekly Python lessons/tutorials to **over 100 students** on Google Classroom and MS Teams
- **Hosted and lead school's first hackathon** and other coding competitions to prepare for UWaterloo's CCC
- **Analyzed monthly reports of student engagement** to find ways to further develop the club
- Revised teaching aids and lessons to better help students grasp fundamental Python concepts

**Flight Sergeant**

283 Royal Canadian Air Cadets Squadron

Sept 2015 - Jan 2020

Vaughn, ON

- Managed and directed a flight of **24 cadets** under my immediate supervision
- Responsible for **instructing weekly aviation lessons** and ensuring cadets have up-to-standard uniform
- Assisted staff in managing the squadron and participated in **organizing squadron activities**
- Nominee for **Flight Commander of The Year** in 2019

## Work Experience

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**Admissions Associate**

Canada's Wonderland

May - Aug 2019, 2021

Vaughn, ON

- Completed parking tolls, ticket sales, and season pass transactions on a computer-based cash system
- Improved **conflict management** skills by working alongside Guest Services to **resolve guest arguments**
- Kept organized records of each transaction and completed required paperwork on a timely basis

## Interests

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Drama (5+ Years of Cultural Plays), Garba (Indian Folk Dance), Riding Motorcycles, Basketball, Hackathons, Painting