




HET PATEL


☎ (416) 990-5267 | ✉ het.patel1@uwaterloo.ca |  het1613 |  het1613 |  hetpatel.site

Technical Skills

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

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

Technical Projects

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 UI 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

President/Founder

CBSS Computer Science Club

Oct 2019 – May 2021

Brampton, ON

- Supervised weekly Python lessons/tutorials to **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 organizing squadron activities
- **Nominee for Flight Commander of The Year in 2019**

Work Experience

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

Education

University of Waterloo

Bachelor of Applied Science – Systems Design Engineering

Sept 2021 – Apr 2026

Waterloo, ON

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

Interests

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