HET PATEL

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Technical Skills

Languages: Python, C/C++, JavaScript, HTML/CSS
Tools/Frameworks: Flask, SQLite, SQLAlchemy, Heroku, Netlify, Git, Firebase, SolidWorks, Figma

Education

University of Waterloo   Sept 2021 – Apr 2026
*Bachelor of Applied Science – **Systems Design Engineering***   *Waterloo, ON*
- Faculty of Engineering Scholarship: **Awarded $5500** based on academic/extracurricular performance
- Relevant Courses: Digital Computation (C/C++), Intro to Design

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 compatible and responsive on all devices 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 an appealing practical **frontend using HTML/CSS/JS**

Wellmatic (Water Well Schematic Planner) 🔗 | *Python, Excel*
- Built an app 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 individually include drawdown values (flow rate, transitivity, aquifer storage coefficient) for each well

Work Experience

Admissions Associate   May – Aug 2019, May – Aug 2021
Canada's Wonderland   *Vaughn, ON*
- Completed parking tolls, ticket sales, and season pass transactions on a computer-based cash system
- Worked alongside Guest Services to **resolve guest complaints and arguments**
- Kept organized records of each transaction and completed required paperwork on a timely basis

Leadership Experience

President/Founder   Oct 2019 – May 2021
CBSS Computer Science Club   *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   Sept 2015 – Oct 2019
283 Royal Canadian Air Cadets Squadron   *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**
- Cut down parade drill sequence completion time **by 13s (23%)**