HET PATEL

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Technical Skills

Languages: Python, C++, JavaScript, HTML, CSS, Bash
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** with **40+ users** 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 with **30+ users** 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
- Reduced schematic preparation time from **45+ minutes** to under **20 seconds** by implementing an option to export individual water well data and schematic plan to **Excel and Notepad** using **File I/O**
- Decreased well misplacement and data error rates by **96%** after integrating ability to include drawdown values (flow rate, transitivity, aquifer storage coefficient) for each well

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
- Saved **64%** of the annual budget by finding alternatives for paid resources and running competitions virtually

Flight Sergeant Sept 2015 – Jan 2020
283 Royal Canadian Air Cadets Squadron *Vaughn, ON*
- Managed and directed a flight of **24 cadets** under my immediate supervision
- Instructed weekly aviation lessons to **35+ students** and organized various squadron activities bi-weekly
- **Nominee for Flight Commander of The Year in 2019**

Work Experience

Admissions Associate May – Aug 2019, 2021
Canada's Wonderland *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**

Education

University of Waterloo Sept 2021 – Apr 2026
Bachelor of Applied Science – Systems Design Engineering *Waterloo, ON*
- Engineering Scholarship: **Awarded $5500** based on outstanding academic/extracurricular performance

Interests

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