

Khush Patel

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SKILLS

- **Programming Languages:** C++, C, Python, HTML, CSS.
- **Libraries/Frameworks:** ReactJS.
- **CI/CD and Other Tools:** Git/GitHub, Visual Studio Code, Atom, Bash.

PROFESSIONAL EXPERIENCE

Front-End Developer | SiteScope

May 2021 – July 2021

- Designed and developed the company's landing page utilizing **ReactJS**, **HTML** and **CSS**.
- Implemented smooth scroll throughout the website using **react-scroll library**.
- Worked closely with company to establish project guidelines and create project specifications.

PROJECTS

Binary Riddle

Dec 2021

- Aimed to test the problem-solving skills of individuals in adventure rooms. The game Binary Riddle prompts the user with riddles in which the user must answer the riddle in binary. This is all done using buttons and displays on the breadboard.
- The software was authored in **C** using **Classes**, **2D Arrays**, **Dynamic Memory Allocation**, and the **LiquidCrystal Library**.
- The Hardware component consisted of **STM32 Nucleo-64 Board**, **LCD display**, **Buttons**, **LEDs**, **Potentiometers**, etc.

Mo Money

Nov 2021

- Financial **C++** program used to calculate adjusted cost base (ACB) for ETFs given a text file that contains the said transactions.
- The program used the help of **Linked Lists**, **Dynamic Memory allocation**, and a **Bubble Sort Algorithm** that sorted the transaction in the text file by date.

Geese Spotter

Nov 2021

- Geese Spotter is inspired off minesweeper where the user is presented with a board filled with "geese" (bombs) and the objective is to correctly find out where all the geese are at.
- The program was developed through **Bit Shift Manipulation** and various **helper functions** to carry out actions such as randomly filling the board with Geese, calculating where the said geese lie.

MyFitnessLog - EngHack

Jun 2021

- During the 3-day hackathon me and my team collaborated to make a fitness tracking program called "My Fitness Log".
- Throughout the 3 days we created a **Python** application using **functions**, a **Figma design** for our website to promote the product, and lastly a functioning website to display our finished product. The website was authored using **HTML**, **CSS** and **ReactJS**.

Discord Weather Bot

Nov 2021

- With the intention to learn how to use API's and **Discord.py**, I subjected to create a weather bot which displays weather details for the city the user inputs.
- Weather Discord Bot was made using the **OpenWeatherAPI**. The user can simply ask the bot about the weather in a certain city by prefixing the city name with "!".
- Utilized by 10+ servers.

EDUCATION

BASc in Computer Engineering, The University of Waterloo

Sept 2021 – Apr 2026

- **Honors:** \$2,000 President's Scholarship of Distinction (95%+ entrance average), opportunity after first year for a \$1,500 Research Award and a \$1,500 International Experience Award.
- **Relevant Coursework:** Fundamentals of Programming, Project Studio.