

Dhruvin Patel

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SUMMARY OF QUALIFICATIONS:

- Strong programming skills in multiple languages gained through the creation of numerous solutions to user-specific problems efficiently and with high quality
- Experienced in the use of applications to ensure user-friendliness and client satisfaction
- Fluent verbal and written communication skills developed through 3 years of leading the Toast Masters program and public speaking
- Expert with web development software learned through online resources to create a personal website

SKILLS:

- **Programming Languages:** C, C++, Java, Python, JavaScript, Html-5, CSS, Solidity
- **Technical Skills:** Object-Oriented Design, Modular programming, API design, Software testing/debugging

RELEVANT EXPERIENCE:

Graph/Algorithm Based Programs:

- Produced a highly efficient program that substitutes ingredients used in the recipe, with queries, and other operations within a 400 x 400 adjacency matrix/list utilizing powerful tools like recursion and algorithms like BFS and DFS.
- Developed software to manage friends, sponsors, and brand characteristics specified by a node representing a person to construct a mini-facebook database with user-defined functions, queries, and other operations for a specific graph.

Web Development:

- Programmed an aesthetic website that displays personal projects and achievements created through HTML-5 and CSS learned from online-resources
- Created well-written, efficient code that is easy to manage/change. Programmed website through layout/user interface in HTML and CSS to represent a mock restaurant website

GUI Simulation of Complex Intersection:

- Increased time efficiency of a coding project with high quality through creating a schedule/plan on how to tackle the situation and effectively taking advantage of teamwork resulting in a complex traffic-intersection simulation

Games:

- Blackjack: programmed a game in Python and C that simulates a famous card game
- Hangman: developed software in Python that simulates a word guessing game

Programming Skills: C, Python, C++, Java, JavaScript, CSS, Solidity, etc.

- Using **graphs** and **recursion** efficiently, both space and time complexity wise
- Create a music synthesizer using the **Binary Search Tree** data structure that adds new notes and synthesizes any existing audio.
- Advanced-level quality works with a **linked list** to create a sophisticated movie database that can adhere to the user's choice and preference of operations
- Knowledgeable of **API** to create code easy to; manage/use, test rigorously and ensure it's error-free, improve and scale as needed.

EDUCATION:

University Of Toronto, Computer Science: Software Engineer, Bachelors of Science (Coop) 2021-Present

- Cumulative GPA: 3.4