Digen Gill

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Objective

- Hardworking software engineering student equipped with Software development skills, plenty of programming experience in Java, C, C#, and Python. A team player and a creative thinker looking to utilize his skills in a professional environment.

Education

B.Eng. Software Engineering

York University, Toronto, ON   Expected Graduation date 2021

Programming Experience

TalkBox Application   https://github.com/digengill/2311Project
- Worked in a small group to create a unique application which aids the user to communicate. The TalkBox application is a customizable application which allows you to play audio files. The software was programmed in Java and implemented on the Raspberry PI. The project comprised of Documentation, Testing, Issue Tracking, Debugging, and Refactoring.

York University Rover Team   2018-2019
- Worked in software development section of the team. Used the Robot Operating System (ROS) framework for the software development of the robot.

Skills & Abilities

- Java, C#, JavaScript, C, Python, Eiffel, and RISC-V.
- Strong leadership, communication, and collaboration skills.
- Skilled in critical thinking, logic, and high math.

Relevant Coursework

Object Oriented Programming
- Inheritance, polymorphism, static typing and dynamic binding.
- Abstraction, modulation, encapsulation, and information hiding.

Design and Analysis of Algorithms
- Knowledge of greedy methods, dynamic programming, and graph algorithms.
- Prune & Search, sorting and divide and conquer algorithms.
- Correctness proofs and lower bound techniques.

Software Design
- Knowledge of Design by Contract, Command-query separation principle, Single choice principle.
- Debugging, Unit Testing and Test-Driven Development.
- Design Patterns (Singleton, Iterator, Observer, Decorator, Visitor, Composite, Undo/Redo).