

# ABISHA KUGATHASAN

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## EDUCATION

### UNIVERSITY OF TORONTO

Bachelor of Engineering

Expected May 2024

Major in Computer Engineering; Minor in Business and Finance

Relevant Coursework: Software Engineering & Design, Algorithms & Data Structures, Engineering Practices I&II

## RELEVANT WORK EXPERIENCE

### SCI Group Inc

Project Analyst, Mississauga ON

May 2022 – May 2023

- Designed and integrated SQL databases in Qlik applications to create dashboards to analyze capacity and demand of resources
- Identified and addressed causes of project delays and collaborated with team members to develop plans resulting in 90% success rate
- Managed multiple projects ensuring all deliverables were completed on time and within the budget

## UNIVERSITY PROJECTS

### ASSEMBLY LANGUAGE PROCESSOR

March 2022

- Built a processor that handles data processing, data movement and flow control instructions similar to the ARM Cortex A9 Processor and connects to external devices such as LEDs, switches and pushbuttons using Verilog
- Developed a Python Script which takes in the processor's instructions and generates machine code
- Debugged Verilog code using ModelSim simulation and analyzed testbenches using Quartus Prime Software

### GEOGRAPHIC INFORMATION SYSTEM SOFTWARE PROGRAM

Jan 2022

- Led team of 3 to create a mapping application in C++ and GTK that uses efficient data structures to promote user experience and responsiveness
- Implemented A\* search algorithm to find the shortest path given 2 intersections and greedy algorithms which reduced runtime by 30%
- Debugged 300-400 lines of code with debugger resulting in major issues to be fixed before the deadline
- Prepared technical presentations and reports with 100% punctuality and high satisfaction from project manager

## LEADERSHIP EXPERIENCE & AWARDS

### UNIVERSITY OF TORONTO ROBOTICS ASSOCIATION – Team Member

Sep 2020 – Present

- Led preliminary phase and designed 5 alternative sketches of robots to compete in the competition of 10 teams
- Consulted senior developers to improve functionality and altered features in accordance with feedback

### DEAN'S MERIT AWARD

June 2019

- Received a scholarship for achieving above 90% entrance average