

Shehan Suresh

University of Waterloo **Software Engineering** Candidate 2021



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Summary of Qualifications

Languages: Proficient: Java, Python, RobotC, C || Familiar: MySQL, C++, HTML, CSS, JavaScript

Tools: Git, SVN, Vim, Android Studio and AutoDesk Inventor

Skills: Initiative/Leadership - Programming Captain for Robotics Team
Problem Solving - 5 years of Programming Experience + Math Contests
Hardworking/Motivated - Completed several side projects during spare time

Projects

Quizzlet

Java (GUI), MySQL, Swing, AWT Libraries and Access

- Student friendly application that allows users to make and take quizzes stored in an Access database
- This studying tool has seen to improve marks by 10% in quizzes they take after using the application

JUMP

C, C++, Tiva-C Arduino Board

- Multi-level game where the user dodges randomly generated obstacles in order to reach the end
- Utilizes Orbit Booster Pack to display graphics on the LED Screen and uses buttons, accelerometer and potentiometer for in-game control

Robot Code (FRC and VEX Competitions)

RobotC, Python and Java

- Programmed both tele-operated and autonomous code for robots to perform specific actions
- Optimized autonomous code to improve the time taken to complete a task by 20%
- Achieved a way to alter motor speed when battery voltage fluctuates to improve consistency by 15%

Rock, Paper, Scissors and Tic Tac Toe

Java (Android Studio) and Python (GUI)

- Self-taught the use of GUIs through creating an interactive game of Tic Tac Toe
- Learned how to use Android Studio through developing a game with drop down menus and buttons

Work & Volunteer Experience

Programming Mentor at High School Robotics Team

2013 - 2016

- Assisted students with building functions to maneuver the robot in a certain manner
- Dedication & Time Management: Worked 15 hours a week programming the robot

Science and Math Teacher at TUSGU Educational Services

2014 - 2016

- Taught students from Grades 4 - 10 to prepare them for the upcoming school year
- Improved Communication Skills: Conveyed and summarized key ideas for students

Awards

1A Term Dean's Honours List

2016

President's Scholarship of Distinction (University of Waterloo)

2016

Grade 12 Physics and Chemistry Award

2016

Euclid Math Contest School Champion

2016

Grade 12 Computer Science Award (Completed in Grade 10)

2014