

# Arshdeep Sidhu

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## LINKS

Github: arshsidhu

LinkedIn: arshsidhu1998

## COURSEWORK

### UNDERGRADUATE

Algorithms

Operating Systems

Functional Programming

Object Orientated Programming

Graphics

Data Structures

## SKILLS

### PROGRAMMING

Proficient in:

Java • Python • C • C#

Familiar with:

Android • Unity Scripting • C++

### SKILLS AND ABILITIES

- Punctual
- Vocal
- Hard Working
- Bilingual (English and Punjabi)
- Interpersonal Character

## EXTRACURRICULARS

### IEEE

- Work with a team of electrical engineers and computer scientists to create a swarm of drones for the annual Big Drone Show.

### COMPUTER SCIENCE SOCIETY

- Voted by students to become a second year representative on the CSS.
- We as a society organize recreational and educational events for students.

### COMPUTER SCIENCE GAMES

- Participates in the annual CS Games
- Challenges based on multiple computer science specializations.

### CARING FOR CAMBODIA

- Help raise money for a hospital in Cambodia through sporting events.

## WORK EXPERIENCE

### UNIVERSITY OF WINDSOR | TEACHING ASSISTANT

Jan 2018 – Present | Windsor, ON

- Teach weekly labs about different Data Structures and Algorithm topics.
- Hold weekly office hours to tutor students with their classwork.

### UNIVERSITY OF WINDSOR | RESEARCH ASSISTANT

Nov 2017 – Present | Windsor, ON

- Working in a bioinformatics laboratory using machine learning to determine possible drug re-targeting with known cancers.
- Completing a database with the skeleton diagrams alongside using openSMILES to change the diagrams to ASCII strings.

### TAPLANE INC | UNITY DEVELOPMENT INTERN

April 2017 – August 2017 | Windsor, ON

- Worked in a team of four to complete mobile applications using Unity.
- Completed tasks assigned by team leader and met all designated deadlines.
- Completed and published a game on the Google Play Store.

## EDUCATION

### UNIVERSITY OF WINDSOR

B.Sc. IN COMPUTER SCIENCE

Expected May 2020 | Windsor, ON

Conc. in Software Engineering

Cum. Avg.: 77%

Major Avg.: 80%

### VINCENT MASSEY S. SCHOOL

HIGHSCHOOL DIPLOMA

Graduated Jun 2016 | Windsor, ON

Cum. Avg.: 92%

## PROJECTS

### BUILD YOUR KINGDOM | 3D ISOMETRIC RPG CITY BUILDER

Language: Java

- Developed the game with the purpose to build your own kingdom until strong enough to over take neighboring kingdoms.
- Constructed A.I. in the game to work against you. Sending attacks, floods, and droughts to stop you from succeeding.

### THE SMART CAR | GESTURE CONTROLLED R.C. CAR

Language: C++

- Worked with Myo (gesture controlled armband) and Arduino to create a R.C. car which is controlled only by the gestures made by your hand.
- Reassembled the R.C. to hold the Arduino and used breadboard for circuiting.

### IBB AND OBB REMAKE | GRAVITY BASED PLATFORMER

Language: Python

- Created a Dragon Ball Z remake of the platforming game, Ibb and Obb.
- Used the switching of gravity mechanic to create puzzling levels.
- Levels also increase in difficulty, later introducing enemies.