

# Karan Sharma

## Computer Engineering Student

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### Education

- 2019-2024 **University of Alberta**  
Bachelor of Science in Computer Engineering
- 2016-2019 **W.P.Wagner**  
Alberta High School Diploma

### Technical Skills

- Proficient in C, C++, C#, Python and Java.
- Familiar with HTML, CSS, and JavaScript.
- Android Development in Android Studio
- Experienced in Linux and GitHub.
- Familiar with circuit prototyping equipment.

### Experience

- 2022-Present **Coding Instructor**, *Code Ninjas*
- Teaching children, aged 7-14, to make games in Scratch, JavaScript, and C#.
  - Running STEM activities to inform kids about STEM careers.
  - Created an excel spreadsheet to keep track of kids progress through curriculum.
  - Working alongside a team of instructors from various backgrounds.
- 2021-2022 **Laser Tag and Minecraft Host**, *LaserCity*
- Welcomed Customers and completed transactions
  - Overseeing laser tag games, includes explaining rules and assisting with equipment
  - Troubleshooted and fixed malfunctioning equipment
  - Organized Minecraft Day camps, management of up to 10 kids and running different activities to keep kids engaged.

### Projects

#### Navigation System

- Created a navigation system based on the City of Edmonton,
- Finds the shortest route between two selected points on a GUI
- GUI was implemented using Pygame
- Dijkstra's Algorithm was used to find the shortest route, written in C++

#### Portfolio Website

- Drew out multiple designs and layouts before deciding on one
- Brought the vision to life using HTML and CSS
- Uploaded using a DNS and github pages.

### Awards and Scholarships

- 2017-2019 W.P. Wagner Honors with Distinction
- 2019 Alexander Rutherford Scholarship
- 2021 Jason Lang Scholarship