

# Carlos Santana

## Bachelors of Applied Science



[carlossantana3279.github.io](https://carlossantana3279.github.io)



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### Highlights of Qualifications

- Enrolled in Level IV of McMaster's Computer Science Honours Program (with Co-op)
- Proficient in: C#, .Net Core, SQL, HTML, CSS, Javascript, C++, and Java
- Excellent communication and problem skills developed through work experience
- Strong academic record showing a strong work ethic

### Work Experience

#### Bell Canada

Software Developer  
(Co-op)  
Mississauga, On  
May 2017- Aug 2018

- Designed, developed, and maintained in-house tools used by the Network Team in an agile environment
- .Net Core framework was used as main framework to develop web apps
- Worked in a small 5 person DevOps team utilizing scrum
- Built SQL queries and aided in the automation of manual processes
- Designed and modified SQL databases to be used by our tools
- Executed the Scrum Master Role for 6 months and successfully designed and facilitated meetings, supervised the scrum process within the team and ensured that proper processes were followed
- Coordinated and delivered bi-weekly workshops for 6 months
- Developed sprint based Calendar and Log Viewer Web Apps as self-directed projects in an agile manner

#### CS Software

Founder, Designer  
Hamilton, On  
June 2016 - Current

- Founded a web design and software development business. Raised \$3000 in start-up funds from Ontario's flagship entrepreneurship program
- Design Websites using WordPress for local businesses
- Developed Touch Roulette – Decision Maker App. A cross platform app to help make a group of friends make decisions quickly in a fun way with over 50,000 total downloads and a 3.8/5 rating on the Play Store

### Tools & Skills

#### Languages

C#, Java, Python, C++, HTML, CSS, JavaScript, SQL, PHP, Lua

#### Tools & Frameworks

Git, .Net Core, TFS, jQuery, Bootstrap, Unity Game Engine, OpenGL, AWS, Openstack, WordPress CMS, Corona SDK, Agile, Visual Studio, MS Office

### Education

#### McMaster University

Hamilton, On  
**Graduating** April 2019

- Enrolled in final year of Bachelor of Applied Science in Computer Science with co-op
- Currently maintaining a 3.70/4.0 GPA, (an A-)
- **Relevant course work:** Data Structures and Algorithms, Software Requirements & Design, Databases, Computer Graphics
- Computer Science Society Executive - Vice President of Technologies Fall 2016 – Winter 2017
- Degroot's Den 2019 Pitch Competition 2<sup>nd</sup> place Award Winner

### Software Projects

#### Good Life Index Project

Java, Project Leader/  
Back End Developer

A web application allowing users to search for cities in the US and retrieve relevant statistical information creating a score for each city based on the city's crime rate. Worked collaboratively with a team of 5 members, employing Git version control and effective communication skills

#### Target Crisis

C++, OpenGL

An on-rails shooter inspired by Time Crisis. Development team of 4. Implemented texturing, lighting, ray-picking, sphere hit detection, Fog, Artificial Intelligence, and a HUD for the player.

#### Terrain Generator

C++, OpenGL

A graphics program using C++ & OpenGL to produce and display an interactive terrain mesh. Implemented Flat shading and Gouraud shading. Terrain can be generated by several different algorithms. Multiple modes for displaying terrain: wireframe, with lighting & shading, and hypsometric.

### Additional Work

- Shipping and Receiving, Terra Greenhouses
- General Laborer, Homes by John Bruce Robinson

Summers of 2015-2016  
Summers of 2012-2015