

## Karel Casier

github.com/KarelCasier

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### SUMMARY

Current Software Engineering student at the University of Waterloo. 3 years of C++ programming.

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### COMPUTER SKILLS

#### Languages

- Proficient in C++ and C
- Familiar with Python, HTML, CSS

#### Software

- Programs: Visual Studio, Xcode, Microsoft Word/Excel/PowerPoint, Photoshop, Illustrator
- Platforms: Windows 7, 8 and OSX

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### PROJECTS

#### Procedural Space Game

Nov 2014 – Present

- Programmed in C++, the game is a open 2D sandbox which utilizes simplex noise to generate natural looking infinite star systems and enemy distribution
- Utilizes object oriented design with inheritance, polymorphism and uses SDL to render

#### Scribbler Robot Group Project

Oct 2014 – Dec 2014

- Demo mark of 106.25% for going above and beyond: By building an iPhone application that receives voice commands, and communicates, via Redis Pub/Sub, with various Python scripts, we turned our Scribbler Robot into a Scribbler "Buddy" that can tell you jokes, give you the weather forecast, look for and follow certain colours, make 1 degree precise turns using the phone compass and even let you drive it with the Myo armband.

#### Personal Website

Dec 2014 – Present

[KarelC.com](http://KarelC.com)

- Created using HTML 5 and CSS, used to host projects, resume, info and a SVN for projects

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### EXPERIENCE

#### Kids' Club Coordinator

Mar 2011 – Jun 2011

*Canadale Nurseries*

- Created a website using HTML5 and CSS for Kids' Club
- Designed unique garden-related activities for children aged 2-12
- Organized and instructed high school volunteers who assisted in the program
- Wrote a weekly electronic newsletter for participating children and parents
- Reported weekly updates to supervisor

#### Customer Service Attendant

Mar 2009 – Mar 2010

*Canadale Nurseries*

- Accurately entered product and customer information into a point of sale database
- Assisted customers with plant and garden related purchases in a fast-paced environment
- Updated customer information for a customer loyalty program
- Maintained plants and display areas for an interesting and clean presentation
- Received and priced new inventory

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### AWARDS

#### University of Waterloo President's Scholarship of Distinction

Aug 2013

- Awarded to students with an entrance average above a 95% average

#### Kenneth Osborne Scholarship

Jun 2013

*Central Elgin Collegiate Institute, St. Thomas, ON*

- Top graduating math student

#### Highest Standing in Physics, Calculus and Computer Science

Jun 2013

Central Elgin Collegiate Institute, St. Thomas, ON

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### EDUCATION

#### University of Waterloo

2014 - Present

*Waterloo, ON*

- Current Undergraduate for Software Engineering (BSE)