

# Justin Goping

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Undergrad Computer Science | 647-202-0920 | [jgoping@uwaterloo.ca](mailto:jgoping@uwaterloo.ca) | [justingoping.com](http://justingoping.com) | [github.com/jgoping](https://github.com/jgoping)

## Summary of Qualifications

- Languages: Proficient with Python, Javascript, C, Turing, and Racket; Comfortable with Java and C#
- Frameworks: Angular, ASP.NET Core
- Databases: Oracle, MongoDB
- Relevant Knowledge: Git, VSTS, Agile/Scrum Methodology, Android Studio, HTML, CSS

## Projects

### OrigamiIT | September 2017

- Created Android App for Hack the North using Watson Image Recognition API to identify the subject of a photo
- Wrote Java code to parse the JSON output to feed it to an origami-instruction database
- Gained experience with Android Studio development and working with a small team throughout the Hackathon due to having to work very efficiently to create the final product in the given timespan

### Self-Developed Games | May 2015 – August 2017

- Constructed Android game using the accelerometer to tilt a chicken around the screen to goal zones
- Designed a two-player game using gamecube controllers where players can move around as squares and shoot bullets to tag each other
- Developed a first-person game with a map system based on an undirected graph where the player walks around my basement looking for a randomly hidden stuffed monkey
- Acquired experience with writing programs with time implemented from building a rhythm game as the notes needed to sync with the music and there could not be delay on the player's input

### Wiki Notes | December 2016 – February 2017

- Gained experience with HTML, Javascript, and JQuery through contributing to the development of a website used for students to upload and view study notes
- Created text boxes using Quilljs to enable notes to be typed and edited by others

## Work Experience

### Software Developer | Finastra | May 2018 – August 2018

- Worked on an Agile software development team on a Web Application used for ordering cheques
- Gained experience in many areas of web development: Front-end with Angular, Back-end with C# ASP.NET Core, data management with an Oracle Database, and unit testing with Jasmine
- Increased proficiency using tools such as Git and VSTS throughout the work term

### Software Engineering Intern | Laborie Medical Technologies | July 2017 - August 2017

- Sourced and evaluated various Java-compatible 3D plotting libraries to use for a new acoustic measurement device to make the data easier to interpret for doctors
- Implemented the Jzy3d library into a proof of concept prototype which included integrating the new real-time 3D rendering functions
- Built and optimized efficiency of real-time weighted moving average filter with user-adjustable controls using a queue to prevent delay in the graphics

### Teacher | Ebots Robotics | September 2016 - May 2017

- Gained leadership skills through role as a teacher for children from grades 2-3
- Developed communication skills by teaching simple machines through the usage of interesting Lego builds

## Achievements

- 3<sup>rd</sup> place team at MasseyHacks III, a Hackathon with ~300 students competing | 2017
- 3<sup>rd</sup> place team in the "Tech Under 20 Cup", a competition to create and pitch a product | 2017
- Qualified and attended in FLL and VEX world-level robotics championship | 2013-2017

## Education

- Candidate for Bachelor of Computer Science, University of Waterloo, Waterloo ON, 2017-2022