

# TONY LIANG

SOFTWARE ENGINEERING



WEBSITE:

t-tonyliang.github.io



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GITHUB:

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## SKILLS

- Proficient: **Java, C, HTML, CSS** and **C++**
- Familiar: **JavaScript, XML**
- Tools: **Bootstrap, Vim, Android Studio, Energia**
- Experience developing web, Android and Arduino apps

## PROJECTS

**Personal Website – Web Development** (<https://github.com/T-TonyLiang/T-TonyLiang.github.io>) Jan. 2015 – Present

- Created a mobile-friendly website with **HTML, CSS** and the **Bootstrap** framework
- Designed website layout and customized visual elements

**Circles – Android Application** (<https://github.com/jerryliu55/Circles>) Nov. 2015 – Present

- Developed an Android game for Hack Western II using knowledge of **Java** and **XML**
- Implemented game logic, behaviour and simple physics engine
- Created graphics using Canvas and Paint libraries to properly display all game elements
- Designed code for future scalability through **OOP** principles

**Land Battle Chess – Java, OOP** (<https://github.com/T-TonyLiang/Land-Battle-Chess>) Oct. 2014 – Apr. 2015

- Developed chess board game using **Java, OOP**, linked lists and stacks
- Utilized effective unit testing to ensure product adheres to original game rules
- Leveraged exception handling for run time errors and display using Swing class
- Documented code (using Javadoc) and development process (planning, techniques, evaluation)

**Orbit Game – Arduino** (<https://github.com/T-TonyLiang/orbit-Game>) Oct. 2015 – Dec. 2015

- Built an obstacle dodging game on a microcontroller board using **C** and the **Energia** IDE
- Interfaced with the **C** and **Arduino** hardware APIs to work with buttons, switches and accelerometer
- Designed and implemented obstacles with increasing difficulty, graphics, and score system

## WORK EXPERIENCE

**Summer Camp Coordinator**, Markham Free Methodist Church, Toronto, ON May 2015 – Aug. 2015

**Assistant Tutor**, Kumon Inc., Toronto, ON Jun. 2014 – Jan. 2015

## EDUCATION

**Candidate for Bachelors of Software Engineering**, Class of 2020 Sep. 2015 – Present

University of Waterloo, Waterloo, Ontario

**International Baccalaureate Program (IB)**, High School Diploma Sep. 2011 - May 2015

Victoria Park Collegiate Institute, North York, Ontario