

# Jason P'ng

Software Developer

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🔄 jpgfile

## WORK EXPERIENCE

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**Encircle Inc.** | Full-stack developer

May 2017 – August 2017

- Implemented full-stack features using **React**, **CoffeeScript** and **Python**.
- Optimized data serializing process to use batch processing, improving speed by **100%**.
- Created translation script to enable multiple languages across the web and mobile apps.

**Osellus Mobile** | iOS Developer

May 2016 – August 2016

- Developed features for iOS mobile apps using **Swift** and **Objective-C**.
- Resolved 135 tasks including bug fixes, updating GUI and increasing functionality.
- Ported and refactored legacy code in **Objective-C** to **Swift** to improve overall maintainability of code.

## PROJECTS

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**Pngball** | Game

<https://github.com/jpngfile/Maliabale-PngBall>

- Co-created an installable **Java**-based two-dimensional pinball game.
- Implemented a **2D physics engine**, which features multiple object collision and acceleration.

**Tetris++** | Game

- Co-created a Tetris game in **C++**.
- Constructed using object-oriented software design patterns.
- Features an **AI** and various levels to alter block generation rates.

**PreScript** | Mobile App

<https://github.com/RLKANG/PreScript>

- Worked with a team to build an Android app in **Java** that transcribes medical prescription labels into reminders.
- Set up the **SQL** database to store prescription data, and programmed the HTTP requests to access the Microsoft Azure API for transcribing images to text.

## SKILLS

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Java  
C++  
JavaScript  
HTML/CSS  
Racket/Scheme  
Swift  
Objective-C  
Python  
Git

## EDUCATION

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Candidate for Bachelor of  
Computer Science, honours  
2015-2020  
University of Waterloo

Fall 2015 and 2016 Term  
Dean's Honours List

## ACHIEVEMENTS

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### Competitions

- 2<sup>nd</sup> Place Team, JDCC Programming Competition (2015)
- Top 10 finalist in the Orbis AI Challenge (2017)

### Awards

- Waterloo President's Scholarship of Distinction  
*Awarded for having a 95%+ acceptance average.*

## VOLUNTEERING

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### Mathematics Society

- Appointed Mathematics Society Vice President Internal.
- Responsible for managing all clubs and events.