

# RYAN LA

Software Developer

## EXPERIENCE

### Software Developer @ Loopio

MAY 2019 - Present // Toronto, ON

- Worked in an agile cross-functional Engineering, Product, and Design team, delivering high valued solutions focused on project import and user's workspace
- Developed responsive and accessible UX using React & Redux
- Developed back-end service architecture using PHP, MySQL, and Elasticsearch
- Leveraged AWS for file management & asynchronous processes using S3 and SQS
- Built services to convert Microsoft Word and Excel documents into HTML readable documents
- Achieved enterprise code quality & output by adhering to best development practices using JIRA + Bitbucket agile product management services, Git Workflow, and hitting 100% code coverage via Unit, Integration, and E2E testing

### Software Developer @ Marion Surgical

FEB 2018 - MAY 2019 // Toronto, ON

- Primary developer in the creation, design, and implementation of Virtual Reality in a medically authenticated simulation using Unity and Unreal Engine.
- Integrated open source SOFA framework's real-time physical simulation into Unity which allows for haptic feedback function.
- Created UI and implemented Google's Firebase realtime database utilizing its API to store application and client data to be synchronized across machines.
- Converted photo references for use as textures and guidelines for 3D models, and created medical assets using Autodesk Maya and Blender.
- Updated, managed, and maintained Marionsurgical.com.

## PROJECTS

### Spotify-React App

- Implemented Spotify's Web API to display and manipulate a users playlist

### InstaPy & Tweepy

- Utilized Python libraries to interact with Instagram and Twitter's API
- Automated processes based on rules and scheduled cloud functions
- Gained 5,000+ followers on Instagram in two weeks, then removed

### Virtual Reality Volleyball Game

- Implemented in Unity and C#.
- Supports Virtual Reality with Oculus Rift and HTC Vive.
- Utilized Leap Motion for live hand gestures and interaction to play volleyball.

**Portfolio:** [www.ryanla.dev](http://www.ryanla.dev)

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## EDUCATION

### University of Waterloo

Waterloo, Ontario

*Class of 2017*

BSc - Honours Health Studies,

*Minor - Computer Science*

*Health Informatics Specialization*

## TECHNICAL SKILLS

React.js | Javascript | PHP | C#  
Java | HTML5/CSS | Python | MySQL  
jQuery | Bitbucket | Github  
Autodesk Maya | Blender  
Adobe Illustrator/Photoshop

## ACHIEVEMENTS

**Second Place** at Oculus Hackathon with Facebook's Developer Circles Toronto. Developed product that implements Oculus Go, 360 Camera, and RC Car to connect presenters with their audience

**"Most Market Value Product"** at QHacks with Queen's University Master of Entrepreneurship & Innovation. Developed product that implements Oculus Rift, Amazon Echo, and Leap Motion to add interactivity to virtual reality

**Hack the North** at University of Waterloo. Developed application for doctors to remotely monitor patients with wearable tech

## ACTIVITIES/INTERESTS

Dogs | Boulderling | Spikeball  
Motorcycling | Ultimate Frisbee  
Snowboarding