

AJAY RAMACHANDRAN

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PERSONAL WORK

Lake Effect Robotics | Android App + Node.js Online Database

Sep 2016 – Apr 2019 (Open Source)

- Created an **Android application** written in **Java** to record data on other robots
- Created a central server that collected all the data using Bluetooth
- Created an online database viewing site that got real-time updates from the Bluetooth server

SponsorBlock | JavaScript Browser Extension + Node.js Database Backend

July 2019 – Present (Open Source)

- Created a browser extension to skip sponsor segments of YouTube videos with over 2,000 current users and 10,000 submissions
- Created a submission system for timestamps using a **Node.js** server hosting an **SQLite** database
- Created a weighted random algorithm to distribute submissions based on votes

Planets | Java Planet Gravity Game

May 2019 – Jun 2019 (Open Source)

- Created a multiplayer planet-gravity based game allowing players to bounce off each other and planets
- Built using **Java** and **WebSockets** for its multiplayer support

Voster Coaster | VR Unity in C#

Feb 2018 – Aug 2018 (Open Source)

- Created a roller coaster building game for VR headsets in **C#** using **Unity** and **SteamVR**
- So far, the game solely supports a VR track creation system using a spline-based system allowing the user to create splines with their controllers in 3D space

Game Jams | Java Games

Aug 2014 – Dec 2018

- Participate in the tri annual Ludum Dare game making competition for the past 14 events
- Participants are assigned a theme and must make a game based in under 72 hours

YouTube History Analyzer | Electron App

Dec 2017 – Jan 2018 (Open Source)

- Created a **JavaScript Electron** app that analyses your YouTube watch history and makes a summary of your YouTube activity like Spotify's "wrapped" website

TurnBasedA | C# Unity Game

Nov 2017 – Jan 2018 (Open Source)

- Created a game supporting networked multiplayer, saving and loading, and up to 12 players

EDUCATION

EXPECTED
Software Engineering,
University of
Ottawa

2019
Specialist High
Skills Major in
Information and
Communications
Technology, KCVI

SKILLS

- Java
- JavaScript
- TCP Sockets
- Node.js + Electron
- C# + Unity
- Python