

Ian Bantoto

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SKILLS

Languages

Java • Python • C • C++ • Scheme •
HTML/CSS • JavaScript

Tools

Git • JSON Handling • Unix • Android
Studio • Bash

Frameworks

Kivy • OpenCV • Bluetooth

LINKS

LinkedIn :// [ianbantoto](#)

Bandcamp :// [ianbantoto](#)

YouTube :// [MisterFireStick](#)

COURSEWORK

UNDERGRADUATE

Designing Functional Programs

Algorithm Design and Data Abstraction

EDUCATION

UNIVERSITY OF WATERLOO

BACHELOR OF COMPUTER SCIENCE

Expected Apr 2021 | Waterloo, ON

EXTRACURRICULARS

UW PARTY GAMES CLUB

President, Founder

Coordinate events and teach over
members how to play a variety of
deception/party games.

WATONOMOUS

General Member

Work on a team of ten to determine the
most optimal safe path for an autonomous
vehicle to take, as part of the SAE
AutoDrive Challenge.

INTERESTS

Classical Guitar

11 years, Over 3000 hours

Fingerstyle Guitar

2 years, Over 1000 hours

Game Development

Computer Vision

Tabletop Games

Humans vs Zombies

PROJECTS

DODGETHEBEAT – PYTHON

- **Won 1st place** at MIT's **Blueprint Hackathon**, Rookie Division, for creating a rhythm game that syncs game data to the current song.
- Worked on gameplay logic, hit detection, and graphics to make the game smooth and fun to play.
- Led a team of 3 to win their very first hackathon.

SH ONLINE – JAVASCRIPT

- Collaborated with the **open source** game development community to create a **web-based** implementation of a popular board game.
- Worked on **back-end JavaScript**, implementing voting, team allegiance display, and player elimination.
- **Regularly played by** a community of **over 200 users**.

CELEBRITIES – PYTHON

- Built a virtual implementation of the party game 'Celebrities' for **UW Party Games Club** as a first step to make the club paperless.
- Used **OOP principles** to represent cards, teams and the game state itself, accurately simulating natural gameplay.

SMART SHOWER – JAVA, C, IoT

- **Won 2nd place** in the Intel Edison category at **Waterloo Tech Retreat** for a Bluetooth-connected, water-proof device that maintains a user's preferred shower temperature.
- Used Bluetooth to send motor instructions from an Android application to the device's Intel Edison.

GUESS LOL – JAVA

- A **desktop application** that tests the user's knowledge of champion, ability, and item icons from League of Legends.
- Worked on the **back-end image serving with Java**, and automated image scraping for new champion releases using **RiotGames API**.

EXPERIENCE

STANFORD CROWD COURSE INITIATIVE – WRITER

Apr 2016 - May 2016 | Online

- **Built a 28-minute lecture series in 5 days** with an **international team** of **20 people**.
- **Drafted and translated scripts**, contributing to the initiative's very **first course**: Introduction to Python.

MCDONALD'S CANADA – CREW MEMBER

Jan 2016 - May 2016 | Oakville, ON

- Devised routines with fellow kitchen crew to **serve customers** their food **as quickly and efficiently as possible**.
- **Trained 3 crew members** to safely operate machinery and assemble various sandwiches.

RED CROSS YOUTH ACTION COUNCIL – VOLUNTEER PLANNER

Dec 2013 - Jun 2014 | Oakville, ON

- Organized various fund-raising events, such as movie nights and talent shows.
- Worked directly with a charity, learning how it works in a more in-depth level.