

# Loïc MURUMBA

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## WORK EXPERIENCE

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### Google

Intern

Waterloo, ON

May 2018 | Aug 2018

- Developed and designed tab in existing review tool to streamline suspicious advertisement review process.
- Reduced number of tools required to evaluate malicious advertisements by 75% by consolidating information from multiple data sources into the new tab.
- Investigated suspicious ads and analyzed what signals are associated with unacceptable behaviour in different ad products. Designed the tab to highlight these signals.
- Made changes to review tab frontend with Python, JavaScript, Google Closure library, and CSS.
- Deployed changes in multiple binaries hosted in different data centers; organized communication between these using remote procedure calls and learned distributed computing concepts.
- Implemented feature extractors for ad information in existing feature repository using C++.

### Mitre Media

Software Developer

Toronto, ON

Sept 2017 | Dec 2017

- Implemented automated stock reliability ranking using Rails and MySQL. Over 6000 stocks ranked daily using this algorithm.
- Converted outdated PHP account registration process to use Ruby on Rails backend and managed release process for the new changes.
- Tripled page views and improved user experience on dividend stock search tool by building helpful filters.

## ACTIVITIES

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### StarterHacks

Organizer

Sept 2018 | Present

- Implementing signup page using Node.js and React to handle requests from thousands of users.
- Updating QR code scanner app that will be used with assigned badges to register and verify participants throughout the event.
- Outlined user model used for organizing applications and registrations in a mongoDB database.

### Midnight Sun Solar Race Car Team

Web Developer

May 2017 | Nov 2017

- Designed and implemented new website to represent the team using HTML, CSS, and Javascript.
- Regularly updated the website to include recent sponsorship updates.
- Website can be viewed at [uwmidssun.com](http://uwmidssun.com).

## PROJECTS

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### FoodFeed | Javascript, Java, Swift

<https://foodfeed.ml>

Mobile app allowing users to easily browse through and save GIF versions of recipe videos.

Developed script to populate database with GIFs and to categorize them for intuitive browsing.

### Soar | Java

<http://soar-game.ml>

Challenging android platformer where the player avoids incoming obstacles; 500+ installs in Google Playstore.

Implemented a database so that users can see and update the world wide high score.

### Stock History (in progress) | Python, pandas, PyQt

Python app allowing users to find historical stock information using Quandl API.

Implementing backtesting of a moving average trading strategy on stocks that are displayed.

### Platformer AI | Javascript, HTML

Machine learning demo of neural networks attempting to beat a simple platform game by dodging obstacles.

Designed genetic algorithm to improve performance over time.

## EDUCATION

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### University of Waterloo

Waterloo, ON

3A B.S Computer Science *GPA: 3.8*

Sept 2016 - April 2021 (expected)

Co-op Student of the Year Candidate for outstanding work term performance evaluations