


LOIC MURUMBA

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SKILLS

ADVANCED

Java • Ruby • Javascript
Android • HTML • CSS
Node.js • Rails • Git

PROFICIENT

Python • C++ • mySQL
HTTP • jQuery • Firebase
React • Machine Learning

FAMILIAR

Redux • Websockets
Unity • \LaTeX • REST API
Embedded Systems

EDUCATION

UNIVERSITY OF WATERLOO

BACHELOR'S DEGREE

Electrical and Computer Engineering
Expected May 2021 | Waterloo, ON

Term Avg: 90%, Rank: 10/97

Dean's Honour List

Scored 100% in C++ Programming Course

DOVER BAY SECONDARY

June 2016 | Nanaimo, BC

Best in Class Award for Programming
(Ruby, Java)

Graduating Avg: 96.75%

AWARDS

Co-op Student of the Year Nominee

Elected Class Valedictorian

2016 Horatio Alger National Scholar

Selected for Overcoming Adversity,
Academic Excellence, and Leadership

President's Scholarship of Distinction

UW Entrance Average > 95%

Richard Madter Entrance Scholarship

Selected for Extra Curricular Work and
Academic Excellence

INTERESTS

Futsal • Cooking • Hackathons • Fitness
Design • Art • Photography • Music

RELEVANT EXPERIENCE

MITRE MEDIA | FULL-STACK DEVELOPER

Sept 2017 – present | Toronto, ON

- Implemented automated stock reliability ranking algorithm using Rails and mySQL. 6000+ stocks ranked daily using this algorithm
- Converted outdated PHP free-trial signup logic to use Rails backend
- Working in agile environment, helping organize sprints with content experts

WATERLOO HYPERLOOP | SOFTWARE TEAM MEMBER

March 2017 – present | Waterloo, ON

- Creating 3D animation of pod to showcase on team website using three.js
- Worked in a team to create web-based dashboard that updates in real time based on sensor outputs using Websockets, C++, React and Redux

MIDNIGHT SUN SOLAR CAR TEAM | WEB DEVELOPER

May 2017 – present | Waterloo, ON

- Redesigning outdated website to be more visually appealing; making regular updates and cooperating with marketing team
- Website can be viewed at uwmidsun.com

STARTERHACKS | DIRECTOR

Oct 2017 – present | Waterloo, ON

- Developing Rails app for users to register for the hackathon more easily
- Organizing event schedule, sponsors and other logistics with team members

LOGIQ3 | SYSTEM SUPPORT ENGINEER

Jan 2017 – April 2017 | Toronto, ON

- Pitched automated service request assignment software and reduced external IT consultant cost by implementing it
- Improved problem solving skills by giving technical support to coworkers

SIDE PROJECTS

FOODFEED | MOBILE APP (IN PROGRESS)

- iOS and Android app allowing users to easily browse and save recipes
- Uses Node and Reddit API to collect and organize recipes in Firebase

PLATFORMER AI | JAVASCRIPT

- 8 initially random neural networks play a 2D game and learn to improve
- Coded a genetic algorithm which selects the 4 most successful nets and reproduces them into the next iteration with some mutation
- Networks learn to play the game very effectively after a few iterations

GESTURE-CONTROLLED 2048 GAME | JAVA/ANDROID STUDIO

- Recreation of 2048 game using the accelerometer to generate actions
- Designed state diagram; earned 100% in Embedded Systems course

SLICE | WEB GAME (IN PROGRESS)

- Realtime online multiplayer combat game, players connect from different browsers to battle
- Developing backend using Node and websockets

SOAR | ANDROID GAME

- Simple yet challenging platformer where player must avoid obstacles
- Implements real-time database to keep track of worldwide highscore
- Available on the Google Play Store