

# Trevor Kollins

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## LINKS

LinkedIn: Trevor Kollins  
Github: tdkollins

## SKILLS

### PROFICIENT

Python

C

C++

### EXPERIENCED

C#

HTML

CSS

JavaScript

React

Flexbox

Shell

Jenkins

Jira

### FAMILIAR

SonarQube

Flask

Matlab

pandas

Express.js

Lua

## EDUCATION

### UNIVERSITY OF WATERLOO

#### BS COMPUTER SCIENCE

Expected Apr 2023  
Cum. GPA: 3.9

## COURSEWORK

- OOP Principles
- Data Structures
- Algorithms
- Linux Terminal
- SE Design Patterns
- Functional Programming

## EXPERIENCE

### FORD MOTOR COMPANY | TEST AUTOMATION

May 2019 – Aug 2019 | Waterloo, ON

- Scripted new Python driven test automation tools to run on Jenkins instances.
- Saved upwards to 3 hours a day on test failure identification through log parsing and pattern recognition scripts.
- Utilized the SonarQube API to revise how existing test data scrapper tools stored output, saving over an hour of manual work a week.
- Isolated and identified recurring issues within the test automation system, resulting in fixes which increased the overall workflow of developers.

### LET'S-A-GAME CHARITY EVENTS | DIRECTOR & TEAM LEADER

Nov 2016 – Present

- Directed 6 online charity fundraisers in support of several charities.
- Managed a team of 22 people in events ranging from 72 - 120 hours.
- Responsible for the building any software needed, including crafting the end-user experience with the Luma Donation Notification System.

## PROJECTS

### GARBADOOR | YHACK - BEST USE OF GOOGLE CLOUD

Oct 2019 Yale University | JavaScript, HTML

- Built a self-sorting garbage can using the Google Vision machine learning model, an Arduino micro-controller, and a comprehensive firebase database.
- Posed real-time city maintenance solutions with the Google Maps API through automated garbage collection statistics.
- Integrated a responsive UI through React, Python scripts, and a Flask backend.

### LUMA DONATION NOTIFICATION SYSTEM

July 2019 - Present | HTML, CSS, JavaScript, Python

- Designed a real-time donation notification application compatible with Tiltify's online fundraiser system.
- Utilized the Socket.IO Python and JavaScript libraries to construct an interactive, event-driven, asynchronous user experience.
- Employed Tiltify's API to receive live fundraiser updates.
- Constructed a comprehensive dashboard to push new event information.
- Facilitated over \$600 in donations towards charitable causes.

### COOKING WITH FRIENDS - HOLOGRAM COOKING | MHACKS

Oct 2019 University of Michigan | HTML, CSS, JavaScript, React, Express

- Created an augmented cooking simulator using hologram projections.
- Responsible for front-end development and animation using React.js.
- Integrated Voiceflow API with Express.js to handle real-time requests from clients.

### FOOTPRINT | STARTER HACKS

Jan 2019 University of Waterloo | JavaScript, HTML

- Developed a collection of applications for KidsAbility to ensure the safety of employees and clients inside the workplace.
- Designed an interactive system which interconnects Amazon's Alexa, Firebase, an Android app and a website application.