

PROJECT EXPERIENCE

Bhoppers

MARCH 2017 - [node.js](#) / [express](#) / [websockets](#)

- Created an [interactive platformer game](#) and chat that can host up to 40 players in co-op or deathmatch
- Designed an open-world with 50+ platforming levels, scaling level design with a fully featured level editor

Candid App

SEPTEMBER 2019 - [expo](#) / [react native](#) / [azure](#)

- Created [AI camera app](#) to algorithmically capture the most candid moments
- Pitched at [Hack the North 2019](#)

Asu Pathfinding Sandbox

DECEMBER 2020 - [p5.js](#)

- Built a [visual sandbox](#) that explores multiple pathfinding and maze-generation algorithms
- Emphasis on high quality animations and visual design

Hacking Quantum Cryptography with PNS

APRIL 2019 - [bb84](#) / [decoy-state](#)

- Won Gold at the Waterloo Wellington Science Fair ([Demo](#))
- [Researched in QKD laboratories](#) under guidance of IQC

EXPERIENCE

Fullstack Dev - Boost Collective

SEPTEMBER 2018 - AUGUST 2019, Waterloo, ON

- Created a selenium social media commenting bot to advertise and reach thousands of artists/customers
- Used [imaplib](#) and [Sheets API](#) in python to web scrape emails and monitor 500-1000 orders every month
- Built a functioning multi-vendor marketplace demo to sell recorded beats

Math Instructor - Grand River Chinese School

DECEMBER 2017 - PRESENT, Waterloo, ON

- Designed and taught math curriculum personally designed to spark learning intuition and curiosity
- Finds lesson plans and topics through self-learning and self-research through numerous areas of mathematics
- Designed and proctored the Nine Chapters Math Contest
- Adapted to the pandemic by hosting Zoom lectures

SKILLS

Languages:

Python, Javascript, Ruby, C, C++
CSS, HTML, Java, SQL, Git, Bash

Frameworks:

React, Angular, Bootstrap, Ruby on Rails, Express, PostgreSQL

EDUCATION

University of Waterloo Computer Science, Honors Co-op

SEPT 2020 - PRESENT

Quantum Cryptography School for Young Students

AUGUST 2018, Waterloo, ON

SHAD University of BC

JULY 2019, Vancouver, BC

Sir John A. MacDonald Secondary School

SEPT 2015 - JUNE 2020

- CS Club Exec
- [JAMHacks 2020](#) Organizer and Web Developer

AWARDS

StarterHacks

[Best Development](#) - JAN 2019

JAMHacks

[First Place](#) - APR 2017

Github Game Off: Scorpion Ball

[4th Most Innovative](#) - DEC 2017

CEMC Math Contests

School Champion in:
CCC, Gauss, Pascal, and Cayley