Andrew Wang

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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 though 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, 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:
Gauss, Pascal, and Cayley