# HAYDEN YAP

University of Waterloo · 2B Computer Science · #20684211

# Experience

University of Waterloo, Department of Psychology · IT Support May 2017 – September 2017 · Waterloo, ON

- **Designed**, **debugged**, and **deployed** working Perl scripts to scrape, organize, and output information about faculty hardware.
- **Troubleshooted** and **repaired** systems, hardware, and network problems for 100+ employees.
- Inspected, configured, and tested new hardware daily to ensure optimal performance and functionality.
- Recovered and restored sensitive data on desktops, laptops, and many different types of external storage devices.

# **Projects**

Personal Webpage - HaydenYap.com · 2018

- Used JavaScript and various libraries such as BootStrap, jQuery, React, and Redux to create a program that generates HTML to produce an easily expandable webpage.
- HTML elements are generating by passing an JavaScript Object to React components whose state is maintained with Redux Store.

#### Pomodoro Clock · 2018

https://github.com/HaydenYap/Pomodoro-Clock

- Utilized the **React** library to construct and display the user interface
- Used the Redux library to maintain the application state of the clock.

### Complier · 2018

- Built a complier for a subset of C using Scala that targets the MIPs instruction set architecture.
- Created methods and algorithms to perform lexical, context-free, and context-sensitive analysis.
- Automated testing using scripts to ensure that each stage of compilation is working as intended.

#### Tetris · 2017

- Developed an adaption of Tetris with a functioning GUI using C++ and OOP principles.
- Used MVC to organize the modularization of game components.
- Deployed Observer Pattern for real-time reactive response to change in game state.
- Performed **black-box** and **white-box testing** to ensure game mechanics were efficient and functional.

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## Languages

- C++
- Java
- C#
- JavaScript
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- HTML

# **Technologies**

- Bootstrap
- React
- jQuery
- Redux

# Education

University of Waterloo Waterloo ON · Sept 2016 - Apr 2021

Candidate for B.CS, Co-op

### **Activities**

### **Community Administrator**

Online Community · June 2016 - present

 Organized events for an online gaming community with a population of 60+ active users.

### **Student Council Representative**

Albert Campbell C.I. · Sept 2015 - June 2016

 Worked as a medium of communication for students to school administrative staff and external event

### Interests

- Algorithms
- Game Development
- Computer Hardware
- Basketball
- Board games