Isaac **Watt**

SOFTWARE DEVELOPER · COMPUTER SCIENCE STUDENT

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Skills

- **Languages:** C, C++, JavaScript, PHP, SQL, Lua, HTML, CSS/SASS
- **Libraries, Frameworks & CMS:** Bootstrap, jQuery, WordPress, Node.js
- **Tools:** NPM, Git, Bash, LaTeX, Heroku, MySQL, ArcMap, Photoshop

Work Experience

Simplistics Web Design 🌐
Waterloo, ON

WEB DEVELOPER
May. 2018 - Sept. 2018

- Created **PHP** partials and templates to be used on the frontend of sites such as Char, Kandl, and KWizCom.
- Designed and implemented an interface for users to purchase gift cards on Athletes Kitchen, generating over **$1000** in revenue the first month it was active.
- Implemented a 'User Management' ETT plugin managing over **1500** active user accounts on the front and backend.
- Created an 'Executive Management' **WordPress** plugin for ETT, including a **MySQL** relational database which managed Executive Officers, Wards, and Schools.

City of Brockville 🌐
Brockville, ON

GIS ASSISTANT
May. 2017 - August. 2017

- Converted **AutoCAD** drawings to GIS format involving data format conversion, geometry verification, and database enhancement.
- Used **ArcMap** and ArcGIS Online as data visualization tools to create maps and web map applications such as St. Lawrence Park, and Outdoor Brockville.
- Assisted the engineering department with the collection of new, and improvement of existing data.

Staples Business Depot 🌐
Brockville, ON

TECHNOLOGY SALES REPRESENTATIVE
April. 2014 - August. 2016

- Consistently exceed given sales targets and projections by **15%**.
- Used **easytech** software as a tool for device services such as setup, diagnosis, and repair, including connecting devices to remote access.
- Explained Staples tech products and services in plain language that was easily understood by the customer.

Projects

Watan ⌗

- Implemented a Waterloo spin off of the popular board game Settlers of Catan using **C++** as part of the CS246 final project.
- Created **UML** diagrams prior to development as a tool to map out a solution and choose appropriate design patterns.
- Practiced writing clean object oriented code through the use of encapsulation, inheritance and polymorphism where appropriate.

Checkered Flags ⌗

- Recreated the Checkered Flags website for the Leeds and Grenville Health Unit using **Bootstrap 3.3.7**, **HTML**, and **CSS**.
- Enhanced the responsiveness and **AODA** friendliness of the site, while giving it a more modern and user friendly interface.
- Met with the Checkered Flags committee once per week to present my progress, and discuss design choices.

Orb Game ⌗

- Created an orb launching game using **Lua** through the mobile development environment, **Gideros**.
- Used the Box2D engine to implement the physics and collision logic.
- Presented the project at my local highschool during an open house night to encourage students to try programming.

Education

University of Waterloo 🎓
Waterloo, ON

BACHELOR OF COMPUTER SCIENCE, CO-OP, 3A
Sept. 2016 - April. 2021

- **Relevant Courses:** CS246 (object oriented programming in **C++**), CS136 (imperative programming in **C**), CS135 (functional programming in **Racket**), STAT231 (statistical programming in **R**).
- **President's Scholarship:** Cumulative highschool entering admission average of 95% or higher.