

# Isaac Watt

3B Computer Science

isaacwatt.me

IsaacWatt

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## SKILLS

**Languages:** C/C++, JavaScript, SQL, PHP, Swift, HTML, CSS/SASS

**Libraries & Frameworks:** Node.js, Express.js, React.js, Unity

**Technologies & Tools:** Git, Bash, Firebase, MySQL, WordPress

## EXPERIENCE

### CTRL V SOFTWARE DEVELOPER

Winter 2019 | Waterloo, ON

- Created the [Account Ctrl](#) web app and a customer account API using [Node](#), [React](#), and [PostgreSQL](#), allowing over **14,000** customers to view gameplay data and update waivers
- Built an email scheduler using [Nodemailer](#) and Pug.js, reducing time taken to personalize emails sent to customers by over **30%** by automating the process via templates
- Wrote a payment processing Node module (using [Elavon](#) API) with a React form template, allowing customers to sign up for leagues such as [Smashbox](#) (over **200** transactions)
- Developed a [Unity](#) program in C# leveraging the [Photon](#) engine, allowing in-game voice communication between players

### SIMPLISTICS WEB DEVELOPER

Summer 2018 | Kitchener, ON

- Created [PHP](#) frontend partials styled with SASS to be used on a variety of [WordPress](#) sites
- Built a Gift Card plugin and interface using the [WooCommerce](#) API, generating over **\$1000** on an Ecommerce website in the first month it was active
- Created a User Management plugin using the [Slack](#) and [Mailchimp](#) API's, to support communications between over **1500** users on the front and backend of a social platform
- Designed and implemented a [MySQL](#) database schema and admin panel for a web app which organized the relationships between wards, officers, and schools in Toronto

### CITY OF BROCKVILLE GIS DEVELOPER

Summer 2017 | Brockville, ON

- Converted [AutoCAD](#) drawings to GIS format involving data format conversion, and geometry verification
- Used [ArcMap](#) and ArcGIS Online as data visualization tools to create maps and web map applications such as [St. Lawrence Park](#), and [Outdoor Brockville](#)
- Wrote a [Bash](#) script which ran as a cron job to automate the process of backing up GIS data

## PROJECTS

### QUICK CODE NODE.JS, REACT.JS, PYTHON, AZURE

- Created a Web IDE which converted spoken pseudo code into JavaScript leveraging [Microsoft Azure's](#) web and cognitive services
- Won the [Best Voice Biometrics Hack](#) and the Wolfram Award at nwHacks 2019

### ORB GAME LUA, BOX2D

- Created an orb launching game using [Lua](#) with the Gideros mobile environment.
- Used the [Box2D](#) engine to implement the physics and collision logic

## EDUCATION

**UNIVERSITY OF WATERLOO** BACHELOR OF COMPUTER SCIENCE  
September 2016 - April 2021 | President's Scholarship

**Relevant Courses:** Algorithms, Operating Systems ([C](#)), Numerical Computation ([Matlab](#))  
Computer Simulation ([R](#)), Object-Oriented Software Development ([C++](#))