

# Isaac Watt

uWaterloo CS

<http://isaacwatt.me>

IsaacWatt

[isaacwatt@icloud.com](mailto:isaacwatt@icloud.com)

## SKILLS

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

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

**Technologies & Tools:** Git • Bash • Firebase • WordPress

## EDUCATION

**UNIVERSITY OF WATERLOO**  SEPTEMBER 2016 - APRIL 2021 (EXPECTED)

Honours Bachelor of Computer Science | Statistics Minor

**Relevant Courses:** Algorithms • Operating Systems (C) • Numerical Computation (Matlab) • Object-Oriented Software Development (C++) • Mathematical Statistics (R)

## 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 and React form template using the [Elavon](#) API, 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 Managements plugin using the [Slack](#) and [Mailchimp](#) APIs, to support communications for 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 web map applications such as [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