

Isaac Watt

Ⓐ <http://isaacwatt.me>

🔗 IsaacWatt

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SKILLS

Languages: C/C++ • Golang • Python • JavaScript • SQL • R

Technologies: OpenCV • NumPy • Unity • Node.js • Docker • Kafka • GCP

EDUCATION

UNIVERSITY OF WATERLOO 🎓 SEPTEMBER 2016 - APRIL 2021

Bachelor of Mathematics | Computer Science & Statistics

Impacting Courses: Algorithms • Operating Systems (C) • Neural Networks (NumPy)
Applied Linear Models (R) • Programming Languages (Haskell)

EXPERIENCE

POSTMATES 🌐 SOFTWARE ENGINEER May 2020 - Present | San Francisco, CA (Remote)

- Working on internal payment processing and financial services (Golang, Python)

UNIVERSITY OF WATERLOO 🌐 UNDERGRAD RESEARCH ASSISTANT Winter 2020

- Worked under the supervision of professor Lesley Istead on research involving stereoscopic 3D line drawings
- Created an algorithm to extract control points from a line drawing (leveraging OpenCV)

SAFE SOFTWARE 🌐 C++ SOFTWARE ENGINEER Fall 2019 | Surrey, BC

- Extended a proprietary geometry validation algorithm to support the repair of degenerate [triangle strip](#) and [triangle fan](#) data
- Rewrote the [sector generator](#) algorithm, adding support for overlapping sectors, increasing sector coverage accuracy by over **15%**
- Implemented polyline simplification using the Douglas-Peucker algorithm and extended it to interpolate by arc segments, decimating curves by an additional **10%**

CTRL V 🌐 SOFTWARE ENGINEER Winter 2019 | Waterloo, ON

- Built 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
- Developed a Unity program in C# leveraging the Photon engine, allowing in-game voice communication between players
- Wrote an internal payment processing Node package using the Elavon API, allowing customers to sign up for VR tournaments (over **200** transactions)

SIMPLISTICS 🌐 SOFTWARE ENGINEER Spring 2018 | Waterloo, ON

- Built a gift card WordPress plugin 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 APIs, to support communications for over **1500** users on the front and back-end 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

PROJECTS

QUICK CODE 🌐

- 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 🌐

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