

TYLER HORTH

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EDUCATION

UNIVERSITY OF WATERLOO

3B Bachelor of Computer Science

SKILLS

LANGUAGES & FRAMEWORKS

Rust | Swift | Ruby | Rails | Python | C | C++ | C# | Java | JavaScript

EXPERIENCE

SHOPIFY

iOS Developer

Summer 2017

- Improved app performance of high traffic areas through meticulous performance profiling.
- Rewrote large sections of the app as part of major design overhaul.

UI Architecture & Acceleration Developer

Fall 2016

- Rewrote the Sprockets (Rails' asset pipeline) source map implementation, reducing compile time by 80% and fixing numerous bugs.
- Assessed benefits and feasibility of replacing Sprockets with Webpack as Shopify's core asset pipeline.
- Created prototype Webpack-Rails branch, benchmarked against Sprockets, and wrote a report detailing the results as well as a plan of action.
- Improved CoffeeScript→ES6 conversion tool to prompt users on unused statements.

Front-End Web Developer

Winter 2016

- Refactored common UI elements into components and influenced the design of the shared component library.
- Wrote a tutorial for building Rails UI components, documented current best practices, and built high quality examples.

OCTANE BIOTECH

C# Windows Developer

Summer 2015

- Designed and implemented a modular, serializable, graphic form builder using C# and WPF.

JIC DESIGNS

Web Developer

Summer 2013

- Developed the front-end for an Electronic Health Record using the Sencha Ext JS Framework.

PROJECTS

STRING CLEANING

July 2017

Command line tool written in rust which removes unused localization strings from iOS projects

- Used parallel iterators and an Aho–Corasick automaton to search a codebase with thousands of files and hundreds of localization strings in under 200ms.

PEG SOLITAIRE SOLVER

December 2015

Functional backtracking algorithm which solves Peg Solitaire puzzles

- Developed as a part of the final project for CS 135; my solution had one of the fastest running times among my peers at 109ms.

TOTALLY NOT MARIO

May 2014

Two-dimensional platforming game resembling Super Mario, written in Python

- Led a team of four, designed the overall program architecture, and developed several core engine components, namely, collision detection, animation states, and the player movement system.

ARCHER ELITE

April 2012

Java plugin for the videogame Minecraft

- Developed for a game server I administrated; it improved the utility of the archery skill by increasing damage at range, and by changing damage values based on the armor types worn.