

Ryan Voigt

3A Mechatronics Engineering

 ryanvoigt.github.io

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Languages: Javascript, Python, HTML, CSS, Objective-C, C#, Java, C++, React, Node.js

Education: 3.6 / 4.0 GPA | University of Waterloo, Candidate for BAsC

Experience

Full-Stack Developer | RouteThis Waterloo, ON | May 2019 - Sep 2019

- **Mitigated critical data exploit** by implementing a configurable **cryptographic hashing** login feature with Javascript & Bcrypt forcing password resets and restricting old passwords.
- **Increased user engagement by 30%** by implementing a configurable leaderboard page with automated usage tracking built with React and REST APIs.
- **Increased test coverage to 100%** by refactoring code to use React and Jest for unit testing.
- Developed a **network diagnostic app** on iOS and Android amassing **thousands of users**, utilizing the RouteThis SDK and REST APIs.

Software Engineer | Herzberg Institute of Astrophysics Penticton, BC | Jan 2020 - May 2020

- Implemented **Pulsar Search Timing** and **Correlation Beam Forming** algorithms using **Python** for processing input signals from an array of 500 telescopes.
- Developed **control systems** and **state machines** with Python to validate telescope configurations and initialize scans on a **TALON FPGA**.
- Development of Gitlab Runners for automated **continuous deployment** testing on developers provided **docker images** to maintain code quality of main branch.

Software Engineer | Aterica Digital Health Waterloo, ON | Sep 2018 - Jan 2019

- Overhauled the company QA process by introducing issue documentation and testing standards. **Increasing QA team's efficiency by 70%** and on-boarding success by **200%**.
- **Saved company \$700 annually on wildcard SSL certificates** using an automated cron job and LetsEncrypt for certificate generation and deployment.
- Utilized **PostgreSQL** to populate and query tables to diagnose Bluetooth connectivity issues.

Software Test Automation Engineer | Videostream Waterloo, ON | Jan 2018 - May 2018

- **Decreased overall smoke suite test runtime by 100%** using Selenium web-driver and implemented it into the continuous integration pipeline using Jenkins
- Overhauled QA documentation by implementing an issues reporting template and integrated daily manual QA testlist with Slack to make manual testing less tedious.

Projects

Spotify Analytics



A Spotify web application that displays statistics based on lifetime Spotify usage, and enables you quickly generate queues based on current listening habits and favourite songs using Spotify API.

Developed with: **Node.js, Javascript**

spotiry.herokuapp.com

Amazon Spending Visualizer



Uses Amazon's item history CSV to generates a report to help visualize your spending patterns, yearly expenses, and preferred shopping categories all within a web browser.

Developed with: **jQuery Javascript,**

ryanvoigt.github.io/Cruncher