Ryan Voigt 3A Mechatronics Engineering





Languages: Javascript, Python, HTML, CSS, Objective-C, C#, Java, C++, Matlab

React, Javascript, jQuery, MongoDB, Unity3D, Git, Jenkins, Linux, Docker, PostgreSQL, Python Tools:

3.5 / 4.0 GPA | University of Waterloo, Candidate for BASc, (Expected 2022) Education:

Experience

Software Engineering | 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.
- Demonstrated the ability to work remotely with a distributed team from all over the world.
- 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 master branch.

Full-Stack Developer | RouteThis

Waterloo, ON | May 2019 - Sep 2019

- 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 web-component architecture (React) and Jest for unit testing.
- Mitigated critical data exploit by implementing a configurable cryptographic hashing login feature with Javascript & Bcrypt to force password resets and restrict old passwords.
- Developed a network diagnostic app on iOS and Android amassing thousands of users, utilizing the RouteThis SDK and REST APIs.

Software Engineering | Aterica Digital Health

Waterloo, ON | Sep 2018 - Jan 2019

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

: Spotify WebApp

Displays statistics based on lifetime Spotify usage, and enables you quickly generate queues based on current listening habits and favourite songs.

Developed using: Node.js, Javascript, Spotify API, jQuery, Heruku Cloud

Projects -

Amazon Cruncher

Uses Amazons 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 using: Javascript, **iQuery**



⟨⟩ Frontier

Battle royale first-person shooter game with multiple maps and game modes, 4 character classes with special equipment, and multiplayer capability.

Developed using: Unity3D, C#, Photon