

Ryan Voigt

3B Mechatronics Engineering



ryanvoigt.github.io



github.com/RyanVoigt



linkedin.com/in/ryan-voigt



rmvoigt@uwaterloo.ca

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

Software Architect | Manulife

Remote (Waterloo, ON) | Sept 2020 - Dec 2020

- Saved the company **\$300,000+ annually** on server and subscription fees by building a proprietary serverless .Net Core rule engine that unified all business logic rulesets, **company-wide**.
- **Increased performance** of bulk engine submissions by **500% on average** (e.g. Loan approvals, Interest Rate, etc.) through use of **multithreading**.
- Allowed the Social Media team to rapidly respond to critical comments by training a **machine learning** algorithm to categorize responses and display them on their dashboard.

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.
- 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

- Developed **control systems** and **state machines** with Python to validate telescope configurations and initialize scans on an **FGPA** that controlled an array of 500 radio telescopes.
- 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

- **Increased test coverage** by refactoring code to use React and Jest for unit testing and created a continuous integration pipeline using Jenkins

Projects

Spotify Analytics

Generates song queues based on current listening habits, and displays statistics based on lifetime Spotify usage, using Spotify API.

Stack: **Node.js, Javascript**
spotify.herokuapp.com

Self-Watering Plant Pot

Self watering plant pot controllable over wifi network to set watering schedules and soil moisture thresholds.

Stack: **Java**
ryanvoigt.github.io/PlantPot

Amazon Spending Visualizer

Generate a report to visualize your spending patterns, yearly expenses, and other statistics based on your Amazon purchases.

Stack: **jQuery Javascript**,
ryanvoigt.github.io/Cruncher