Ryan Voigt

4A Mechatronics Engineering

ryanvoigt.github.io
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Languages: Javascript, Python, Node.js, Mongo, Redux, GraphQL, Objective-C, C#, Java, C++, React, SQL

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

Experience

Full-Stack Developer | Dozr   Remote (Waterloo, ON) | Apr 2021 - Sept 2020

- Lead redesign and production rollout of core communication layer between microservices that saved **12% annually** on hosting fees and **decreased payload delivery time by 130%.**
- Stopped the company from becoming blacklisted on Google Shopping by automating ad-deployment and calculating equipment rental rates based on large datasets.
- Allowed end-users to track order progress and inventory status by designing and building a **unifying native application** with Expo that collected data from multiple sources.

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**.
- Allowed the Social Media team to rapidly respond to critical comments by training a **machine-learning** algorithm to categorize responses and display them on PowerBI

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.
- 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

- **Saved company $700 annually on wildcard SSL certificates** using an automated cron job and LetsEncrypt for certificate generation and deployment.
- Overhauled the company QA process by introducing issue documentation and testing standards. **Increasing QA team's efficiency by 70%**

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 App

Generate song queues based on listening habits, and display lifetime Spotify usage statistics, using Spotify API.

spotiry.herokuapp.com

Self-Watering Plant Pot

Smart home self watering system powered by ESP32 board over wifi to plan watering schedules set soil moisture thresholds.

ryanvoigt.github.io/PlantPot

Movie Nomination App

Dynamic React website for nominating movies for awards, utilizing the IMDB API to pull in movie information in real time.

movienomination.herokuapp.com