

Ryan Fleck

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EDUCATION

UNIVERSITY OF OTTAWA – BASC COMPUTER ENGINEERING

- Graduating Winter 2021, currently in third year of study

EXPERIENCE

IBM – EXTREME BLUE TECHNICAL INTERN

SUMMER 2019

- Developed a tool to replace deprecated libraries within compiled Java EE applications
- Architected a transformation-rule organization system using the reflections library
- Configured development workflows with docker, shell & python scripts, Travis CI

MNP LLP – CO-OP DEVELOPER

JANUARY–DECEMBER 2018

- Wrote (in team of three) a replacement Drupal backend for an internal SiteCore CMS
- Developed features, fixed bugs in a client's Teamsite (Java EE/Spring) CMS
- Rewrote razor (SiteCore) components to reduce SEO redirects to missing pages
- Wrote technical and user documentation for a client's CMS created with SiteCore
- Wrote AEM HTL/JSP components, configured workflow & security for bid prototype

VOLUNTEERING

UOE RACING – CONTROLLER DEVELOPER

SEPTEMBER 2019–PRESENT

- Responsible for re-writing the embedded brushless DC motor controller code using C
- In a team of two, changed the code from polling to interrupt-based sensor reading

XALGORITHMS FOUNDATION – CONTRIBUTOR

APRIL 2018–PRESENT

- Wrote unit tests in Scala for a core system component, the open source rule interpreter
- Tested the rule parser against sample rules, proposed improvements, reported bugs

PROJECTS

- Socket.IO Trivia – Developed a UX trivia webapp in Express with scoreboard & chat
- Fake News – Created a flask app to serve content generated from the given URL
- Telegram Chat-Bots – Using Python and NodeJS, wrote bots to respond to key words from friends, query Wolfram Alpha, and provide tools for running D&D games in-chat
- Games – Numerous 1-4 player experimental demos in Godot, Unity, Unreal, Phaser
- Slack BusBot – In a team of two, wrote a slack chat-bot using the OC-Transpo API
- Influx – Team Management System written for SEG3102 course with Django.

TECHNOLOGY

I am familiar with the following technology, and can utilize test-driven design with industry standard design patterns and tools to create and deploy secure business applications.

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|--------|------|---------|------|------|------------|-------|-------|--------|
| Python | Java | Java EE | C# | .NET | JavaScript | HTML | CSS | Razor |
| C | C++ | Arduino | Ruby | XML | JSON | REST | SOAP | Docker |
| JUnit | Jest | Android | WS | PHP | Spring | Mongo | Scala | LaTeX |
| PSQL | Hugo | Jekyll | Go | XSL | Heroku | | | |