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.

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			