Rvan Fleck

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EDUCATION

University of Ottawa

Ottawa, ON

Bachelor of Applied Science in Computer Engineering

Sep. 2015 - Apr. 2021

EXPERIENCE

MNP LLP

Kanata, ON

Co-Op Developer

Jan. 2018 - Dec. 2018

- o SiteCore C#, Razor, JS, XML, MongoDB, SQL: SiteCore is an Enterprise WCMS. Involved in quality assurance, testing, debugging, extending the backend and building components according to client requirements.
- Adobe Experience Manager JSP, Java, JS, HTL: Assisted software architects with development of an AEM prototype for a client bid. Responsible for security, user & group management, workflow and 2 components.
- o TeamSite XML, XSL, Java, JS, Spring, Bootstrap, CentOS: Maintained, debugged and extended an OpenText Teamsite system, a Java-based Spring Boot CMS. Utilized CI and CD in an agile team of five.
- o Drupal PHP, Twig, JS, MariaDB, Azure: Investigated, developed and deployed a Drupal CMS to Azure in a team of three. Responsible for CentOS container prototype, components, search page.
- Technical Writing LaTex, Python: Produced high-quality documentation for both non-technical and system administrator targets. Minimal revision was applied to system documentation before submission to clients.
- Quality Assurance Microsoft TFS, Jira, Python: Designed and executed multiple successful Quality Assurance Protocols, utilized automated testing, hundreds of bugs captured, tracked and resolved.

Xalgorithms Foundation

Ottawa, ON

Contributing Developer & Technical Writer

Apr. 2018 - Present

- o Interpreter Development Scala, Ruby, Docker: The IoR Interpreter parses rules in .xalgo format and runs them against an internal collection of tables and provided sample data. Coded some methods and unit tests.
- o IoR Software Architecture: Involved in discussions regarding the implementation of the IoR and .xalgo language. For more information, please visit xalgorithms.org.
- Quality Assurance: Investigates the , posts all bugs to the Xalgorithms Github repositories.

Personal Projects

Projects are unit tested with **Travis CI**, often in a **Heroku** container, and available for code review on Github.

- Video Games Three.JS, Pixi.JS, LibGDX, Unreal, Socket.IO: Numerous 1-4 player titles, usually written and tested for use with four XBox 360 controllers, using Express and Socket.IO for game networking.
- MorningData C++, NodeJS: A seven-segment display sits by my bed and displays the weather, and the arrival time of the next bus at a fixed stop. System composed of an Arduino reading serial input and NodeJS piping formatted OC-Transpo and OpenWeatherMap API Data to a serial port. Next phase: wireless module to connect pi and arduino.
- SuperPull NodeJS: Crawls the filesystem for git directories and stores them in a config file. Executing superpull brings all configured repositories and remote branches up to date.
- RML: Ryan's Micro LISP C: Tiny not-quite-ANSI lisp repl. Tokenization and parsing experiment.
- NodeJS REST APIs PostgreSQL, Mongo, NodeJS, Express: Built multiple NodeJS APIs, using clever async database storage & retrieval methods, for projects and internship applications. Most recent: S19 Shopify Dev Challenge

Group Projects

- CanUX Conference Booth Trivia: NodeJS, Socket.IO, WebPack, Heroku, SASS: Chat & Trivia app that originated as a personal project, but was poached by MNP LLP and a frontend developer was assigned to design a frontend.
- BusBot: NodeJS, MongoDB: Developed with M.Orchard. Developed a Slack Bot that pulls & processes data from the OC-Transpo API and formats it for display in slack messages. Caches bus data in MongoDB.
- LightShow: Blockchain Christmas Tree NodeJS, Express, Solidity, C++: Hackathon team of three. Utilized a simulated Ethereum blockchain to record transactions from a simple web app. Judges could use the app to change the color of the tree. Wrote the Node-to-Arduino serial interface for the dApp and the Arduino serial interpreter.