Ryan Fleck

ryanfleck.github.io

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EDUCATION

- **University of Ottawa**
  Bachelor of Applied Science in Computer Engineering

  Ottawa, ON
  Sep. 2015 – Apr. 2021

EXPERIENCE

- **MNP LLP**
  Co-Op Developer

  Kanata, ON
  Jan. 2018 - Dec. 2018

  - **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.
  - **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.
  - **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**
  Contributing Developer & Technical Writer

  Ottawa, ON
  Apr. 2018 - Present

  - **Notifications**: Service for sending email, push and in-app notifications. Involved in features such as delivery time optimization, tracking, queuing and A/B testing. Built an internal app to run batch campaigns for marketing etc.
  - **Nostos**: Bulk data processing and injection service from Hadoop to Cassandra and provides a thin REST layer on top for serving offline computed data online.
  - **Workflows**: Dataduct an open source workflow framework to create and manage data pipelines leveraging reusables patterns to expedite developer productivity.
  - **Data Collection**: Designed the internal survey and crowd sourcing platfowm which allowed for creating various tasks for crowd sourding or embedding surveys across the Coursera platform.

PERSONAL PROJECTS

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

- **NodeJS REST APIs – PostgreSQL, Mongo, NodeJS, Express**: Open source python library for financial data analysis and machine learning for finance.
- **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 when the next 14 is passing my apartment. System composed of an Arduino reading serial input and NodeJS piping formatted OC-Transpo and OpenWeatherMap API Data to a serial port.
- **SuperPull – NodeJS**: Blurb
- **RML: Ryan's Micro LISP – C**: Blurb

GROUP PROJECTS

- **CanUX Conference Booth Trivia: NodeJS, Socket.IO, WebPack, Heroku**: Open source python library for financial data analysis and machine learning for finance.
- **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.
- **LightShow: Blockchain Christmas Tree – NodeJS, Express, Solidity, C++**: Hackathon team of three. Utilized a simulated Ethereum blockchain to record transactions from hackathon judges express