Ryan Fleck

ryanfleck.github.io

Email : ryan.fleck@protonmail.com
Mobile : +1 (613) 501-4043

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*
  - **SiteCore: C#, JS, XML**: TensorFlow is an open source software library for numerical computation using data flow graphs; primarily used for training deep learning models.
  - **Drupal: PHP, Twig, JS**: Apache Beam is a unified model for defining both batch and streaming data-parallel processing pipelines, as well as a set of language-specific SDKs for constructing pipelines and runners.
  - **Adobe Experience Manager: JSP, Java, JS**: Apache Beam is a unified model for defining both batch and streaming data-parallel processing pipelines, as well as a set of language-specific SDKs for constructing pipelines and runners.
  - **TeamSite: XML, XSL, Java, JS, Spring, Bootstrap, CentOS**: Apache Beam is a unified model for defining both batch and streaming data-parallel processing pipelines, as well as a set of language-specific SDKs for constructing pipelines and runners.
  - **Technical Writing: LaTeX, Python**: Apache Beam is a unified model for defining both batch and streaming data-parallel processing pipelines, as well as a set of language-specific SDKs for constructing pips and runners.
  - **Drupal: PHP, Twig, JS**: Apache Beam is a unified model for defining both batch and streaming data-parallel processing pipelines, as well as a set of language-specific SDKs for constructing pipelines and runners.

- **Xalgorithms Foundation** — Ottawa, ON
  Contributing Developer & Technical Writer — *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**: Multiple small 1-4 player titles, usually written and tested for use with four XBox 360 controllers, in Pixi.JS, LibGDX, GameMaker, Unreal 4.
- **MorningData: C++, NodeJS**: A seven-segment display sits by my bed and reads today's weather, and when the next 14 is passing my apartment. System composed of an Arduino reading serial input and NodeJS piping 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**: Data Visualization of Git Log data using D3 to analyze project trends over time.
- **LightShow: Ethereum Blockchain Christmas Tree: NodeJS, C++**: Data Visualization of Git Log data using D3 to analyze project trends over time.