



Richard Pannell

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Summary

I am a full stack developer with a focus in big data analytics. As a leader I bring a passion for communication, project management and building team capacity through learning. Driven to use technology to improve the lives of people.

Technical

Languages

Python, Java, Perl, PHP, Ruby, C, JavaScript (jQuery, d3.js), CSS (Twitter Bootstrap, LESS), HTML, SQL, XML

Leadership/PM

Agile/Scrum, Lean, 5s

Frameworks/CMS

Django, Ruby on Rails, WordPress, Drupal, CodeIgniter, Web2Py

APIs

Twitter, Facebook, Disqus, Walkscore, Google Maps, Google Transit, REST

Databases

MongoDB, PostgreSQL, Oracle, Redis, MySQL, SQLite

Experience

Social Media Lab

Dalhousie University
2013-present

Full stack developer and project lead for the development of web tools to conduct big data analytics using the latest data science technologies and distributed databases

- Collected 2TB of Tweets from Twitter Stream and made them searchable using a 50GB index
- Implemented text, frequency, and network analyses and visualizations
- Designed system which employed multiple specialized databases
- Adapted scheduling system to allow users to queue collection and analysis events

Office of Aboriginal Affairs

St. Mary's University
2014-2015

[Mi'kmaw Place Names](#)

Technical consultant for multipartner initiative creating an interactive online map of traditional Mi'kmaw place names and land use patterns.

- Integrated ArcGIS map with Wordpress to provide content management system for client
- Created Mi'kmaw-inspired Wordpress theme

**Ecology Action
Centre**

2012-2013

gomaritimes.ca

Full stack developer for transportation search website

- Created Drupal transportation search plugin
- Managed tasks and deployment of feature improvements made by student volunteers

Dorje Denma Ling

2010-2012

dorjedenmaling.org

IT & facilities manager for residential conference center

- Member of executive council
- Staff and volunteer manager
- Acted as general contractor for expansion projects
- Developed database for registration and finance

Amazon.com

2004-2010

Data analyst responsible for developing and maintaining software for inventory control

- Created inventory research tools that increased speed of defect detection by 400%
- Built a performance management system for human resource department
- Improved order sortation process by applying Kaizen tools reducing staging buffers by 40% and reducing the average order lead time by 7 minutes
- Mined transaction logs and databases to create daily inventory control reports

Education

**Dalhousie
University**

2012-2015

Faculty of Computer Science: Bachelor of Science in Informatics with concentration in Sustainability

- Courses included Java, C, Design Patterns, Data Mining, Algorithms, Agile Project Management

Projects

2012-2015

Springtide Collective: openhousens.ca

Project lead for improving website aimed at enhancing transparency of parliamentary bills and debates

Freetown Initiative: freetowninitiative.org

Project lead for building a crowdfunding website for projects in Freetown, Sierra Leone

Wanderstream: wanderstream.ca

Project lead for developing a prototype for a Nova Scotia wiki-driven outdoor activity app

**Morehead State
University**

1998-2002

Bachelor of Arts (incomplete), Vocal Music and Physics