

William LaRocque

SOFTWARE DEVELOPER

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RELEVANT WORK EXPERIENCE

DATA SCIENTIST • GOVERNMENT OF CANADA • 2019

Technology Trends Analysis Project

Summer 2019

- Design and Implement a solution that can ingest at least 1.5TB of tracked technologies data each year, index it and keep it for a long period of time
- Understand intricate details of each tracked technology
- Explore the data to find trends
- Design and implement general reports on the ingested data to show the trends
- Provide the means to users to query the data for more advanced results and analysis
- Automate the whole process

SOFTWARE DEVELOPER • HOUSE OF COMMONS OF CANADA • 2016-2018

Internal Case Management System (ICMS) Migration

Summer 2018

- Migrated over 2 million records from the CRM 2011 system to the new CRM Dynamics 365 system using SSIS packages and KingswaySoft.
- Adapted a custom CRM workflow to be run as a SSIS Package in the new system.

United Way Auctions Project

Summer 2017

- Designed and Implemented a SharePoint web application that renders up to 1000 auctions in less than 2 seconds using HTML, CSS and JavaScript.
- Created custom C# event receivers to ensure concurrency and security of the auction site and its data.
- Wrote test cases of the product.

System Development Services (SDS), SharePoint Team

Summer 2016

- Updated over a dozen the Word and Excel templates to streamline the look and feel and update their contents.
- Gathered the requirements from the different groups who use the templates.
- Developed a custom SharePoint web part.

EDUCATION

M.SC. IN APPLIED ARTIFICIAL INTELLIGENCE • EXPECTED 2021 • UNIVERSITY OF OTTAWA

Honors:

- Vector Scholarship in Artificial Intelligence (VSAI) from the Vector Institute (for 2019)
- University of Ottawa Excellence Scholarship

B.SC. MAJOR IN COMPUTER SCIENCE WITH A MINOR IN MATHEMATICS • JUNE 2019 • UNIVERSITY OF OTTAWA

Honors:

- *Summa cum laude* (Final GPA: 9.890/10)
- University of Ottawa Faculty of Engineering Silver Medal (2019)
- University of Ottawa Faculty of Engineering Dean's Honour List recipient (2016, 2017 and 2018)

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- Nortel Networks admission scholarship

DIPLOMA OF COLLEGIATE STUDIES IN NATURAL SCIENCES • AUGUST 2015 • CÉGEP DE L'OUTAOUAIS

SKILLS

- Able to work in both of Canada's official languages (French and English).
- Experienced with Python, Java, JavaScript, R and SQL.
- Familiar with Scilab, PHP, Ruby, C#, Visual Basic, SSIS Packages, Firebase, Apache, Microsoft Office Suite, Microsoft SharePoint, Microsoft Dynamics CRM, Apache Pig, Hadoop.

OTHER WORK EXPERIENCE

PROJECT LOGISTICS • HOUSE OF COMMONS OF CANADA • 2016

Next-Generation Canadian Constituency Network (NG-CCN) Project Summer 2016

- Managed the project's inventory.
- Helped configure 1250 devices (400 Force Point Next Generation Firewall (NGFW), 400 Cisco ISR 891, 400 Cisco eAP, 50 Cisco 3560 Expansion Switches (ESW)) in about a month.
- Prepared the systems for shipping to the constituency offices.

CLERK • SOCIÉTÉ DE L'ASSURANCE AUTOMOBILE DU QUÉBEC (SAAQ) • 2014 - 2015

- Provided services to clients and answer their questions.
- Ensured that the clients' files are in order.
- Assisted with local computer support.

CUSTOMER SERVICE • COOPSCO OUTAOUAIS • 2012 - 2014

- Printed documents.
- Served clients and answered their questions.
- Used a cash register and handled cash.

INTERESTS

- Playing videogames.
- Watching sports such as American and Canadian football, hockey and soccer.
- Challenging my point of view.
- Learning new paradigms and ways of thinking.