

EDWARD BURNS

Management Engineering student

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 EdwardBurns10

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EXPERIENCE

Full Stack Developer, Redcanari (Fall Co-op September – December 2020)

- Developed a full stack ReactJS web application which processed, manipulated and displayed user data
- Created serverless backend using Amazon DynamoDB and AWS Lambda
- Created a Microsoft sign-in authentication server with a Traefik proxy, docker and flask

Cyber Security Analyst, Bank of Canada (Winter Co-op January – April 2020)

- Researched and identified the leading dangerous and relevant global Advanced Persistent Threat groups. Analysed capabilities of threat actors and attack vectors to identify potential vulnerabilities.
- Wrote and modified python scripts to improve opensource software programs
- Wrote programs using VBA and macros to optimize the filtering process of excel files containing 750,000+ security vulnerability logs
- Specified and procured virtual machines in Azure, then installed and tested opensource software in a Red Hat Linux VM environment

Data Process Engineer and Analyst, Statistics Canada (Summer Co-op May – Aug 2019)

- Worked to modernize data production and verification practices in order to streamline operations, standardize and automate processes.
- Organized and lead team meetings
- Manipulated, dissected, verified, analyzed & interpreted financial data. Constructed statistical data tables and graphs, prepared written analyses, presented results and made recommendations.
- Used Microsoft Excel at an advanced level (using Visual Basic for Applications, creating pivot tables and macros and using complex formulas).

Project Research Co-Lead, University of Waterloo Design Team – Industry 4.0 (2018–2019)

Lifeguard/ Swim Instructor, City of Ottawa - Plant & Pinecrest Pools (2016 – 18)

PROJECTS

Personalized Book Recommendation System (Ruby)

- This is a program which reports books most similar to specific titles based on user ratings.
- Recommendations based on cosine similarity between the book vectors.

Personal Website

- Personal website designed to display portfolio and highlight abilities using CSS, and ReactJS.
- Used MaterialUI for the core framework to create a more responsive design

SKILLS

Programming

Python Ruby Java Bash
JavaScript SQL VBA

Tools & Technologies

HTML 5 CSS 3 Git
Bootstrap 4 MySQL Rails
React/Redux AWS Node
DynamoDB

EDUCATION

Management Engineering Co-op (3A)

University of Waterloo (2018 – 2023)

ACTIVITIES & INTERESTS

- Technology, Pentesting, hackathons (Hackfest, Hack-the-North)
- Competitive soccer for Ottawa City, varsity soccer team captain, provincial futsal finalists.