

Ryan Newman

University of Waterloo (2015 – 2020)

Computer Science, Software Engineering Option, Combinatorics and Optimization Minor

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SUMMARY OF QUALIFICATIONS

- Proficient in a wide range of programming languages including C++, Dart, Go, Java, JavaScript, Python and SQL.
- Understanding of multiple web frameworks like Angular, Node.js, React, Redux and Spring.
- Experience with tools such as Azure, Docker, Git, Jenkins, MySQL, Pivotal Cloud Foundry and Redis.
- Excellent technical communication skills through active participation in team scrums and sprints.

EXPERIENCE

GOOGLE

Mountain View, California

Software Engineering Intern

Jan 2018 – April 2018

- Worked on the team responsible for the Google Express Customer Support application.
- Wrote API's in Java and UI in AngularDart to support a highly scalable and maintainable draft email feature.
- Extended current email infrastructure by implementing scheduling and attachment capabilities.
- Implemented measuring, monitoring and alerting for base client to server network latency.
- Extended current WebDriver test suite by adding image diff assertions for the UI.
- Participated in classes on campus focusing on topics such as TensorFlow and The Life of a Browser Event.

LCBO | NEXT

Kitchener, Ontario

Full Stack Developer

Sept 2017 – Dec 2017

- Worked to rapidly develop 5 POC applications including a vendor ordering system, grocer claims and product locator using Node.js, ReactJS, MongoDB and PostgreSQL.
- Architected a microservice that performed data transformation to batch process thousands of alcohol orders.
- Created a Chatbot using the Meya.ai platform and the Dialogflow NLP API to help clients pair food with alcohol.

MANULIFE FINANCIAL

Toronto, Ontario

Software Engineering Intern

Jan 2017 – April 2017

- Developed a Go web application that generated access reports by querying multiple API's, converted the data into a csv format and sent the report via email.
- Wrote a Bosh release that deployed a Vulnerability Management Agent onto hundreds of Virtual Machines.
- Wrote a Spring web application that allowed developers to check for connectivity from specific platform subnets to a designated host and port.
- Created Bash automation to assist developers with the onboarding of their applications.
- Worked with tools such as Pivotal Cloud Foundry, Concourse, Bosh and Microsoft Azure.

THOUGHTWIRE

Toronto, Ontario

Junior Automation Developer

May 2016 – Aug 2016

- Developed a Java command line tool that analyzes HTTP requests/responses in the form of har files, runs the data against a predefined set of rules and reports violations

SIDE PROJECTS

STUDENT PATHWAYS CHALLENGE

HTML/CSS/JavaScript

- Allows students to compare their current progress to any possible pathway that leads to a specific job.
- Developed a RESTful web service to manage user authentication and dynamic pathway generation.
- Placed second out of more than 50 teams across Ontario and won a \$13,000 cash prize.

DOCUMENTED LEARNING

Java/Python/JavaScript

- A repository for detailing the results of my learning from self-directed studies and online classes
- Holds notes for essential Computer Science Concepts such as Docker, Vagrant and Git.
- Implemented popular algorithms in the realms of graph theory, sorting and optimization.
- Created multiple POC projects for systems and frameworks like MySQL and Socket.io.

AWARDS

THE TOP CONTRIBUTOR AWARD: Global Solutions Delivery

Manulife Financial

DEANS HONOUR LIST: Achieved Over an 87% Term Average in Winter 2016

University of Waterloo

EUCLID MATH / CANADIAN COMPUTING COMPETITION: Certificate of Distinction

University of Waterloo