

# Ryan Newman

University of Waterloo (2015 – 2020)

Computer Science, Software Engineering Option, Combinatorics and Optimization Minor

ryannewman2828.github.io

ranewman@edu.uwaterloo.ca

github.com/ryannewman2828

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## SUMMARY OF QUALIFICATIONS

- Proficient in a wide range of programming languages including Java, Bash, SQL, C++, JavaScript, Python and Go
- Understanding of multiple web frameworks like Spring, Node.js, AngularJS and ReactJS
- Experience with tools such as Git, Docker, MySQL, Jenkins, Pivotal Cloud Foundry, Redis and Azure
- Excellent technical communication skills through active participation in team scrums and sprints
- Demonstrated practical problem solving skills through high rankings in multiple contests

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## EXPERIENCE

### 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
- Designed and Implemented a highly scalable model for Digital Identity that used Redis and Azure Blob Storage
- 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
- Maintained and extended an automated test suite using Java, JUnit and Selenium
- Wrote scripts in Bash and Python to run an installer against a specified set of target servers

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## 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

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## 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