

Ryan Newman

University of Waterloo (2015 - 2020)

Computer Science, Software Engineering Option, Combinatorics and Optimization Minor

ryannewman2828.github.io

ryannewman2828@gmail.com

github.com/ryannewman2828

SUMMARY OF QUALIFICATIONS

- Proficient in a wide range of programming languages including C++, C#, Dart, Go, Java, JavaScript and Python.
- Understanding of multiple web frameworks including 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

MICROSOFT

Redmond, Washington

Software Engineering Intern

Sept 2019 – Dec 2019

- Owned a system responsible for performing maintenance, alerting and auto-mitigations on databases.
- Enhanced the end to end security of the system through restricting elevated database access.
- Implemented features around asynchronously scheduling SQL scripts against multiple organization databases.
- Developed Reporting Dashboards for Service KPI's, slow query diagnostics and database wait times.

GOOGLE

Sunnyvale, California

Software Engineering Intern

Jan 2019 – April 2019

- Built a tool that increases the developer's velocity by reducing their contextual loss when switching workflows.
- Designed and implemented a data pipelining system to handle complex event processing.
- Framed problems surrounding data model and storage, resulting in a graph data layer.
- Designed an extensible GraphQL query service supporting a large array of access patterns.
- Converted ambiguous problem statements and use cases into a set of well-defined technical requirements.

Software Engineering Intern

Mountain View, California

Jan 2018 – April 2018

- Worked on the team responsible for the Google Express Customer Support application.
- Wrote APIs in Java and a 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.

LCBO | NEXT

Kitchener, Ontario

Full Stack Developer

Sept 2017 – Dec 2017

- Worked to rapidly develop five proof of concept applications including a vendor ordering system, grocer claims and product locator using Node.js, ReactJS, MongoDB and PostgreSQL.
- Developed a microservice that performed data transformation to batch process thousands of alcohol orders.

MANULIFE FINANCIAL

Toronto, Ontario

Software Engineering Intern

Jan 2017 – April 2017

- Wrote a Spring web app that allowed developers to test connectivity from platform subnets to a target host.
- Developed a Go app that generated and sent access reports via email.
- Wrote a Bosh release that deployed a Vulnerability Management Agent onto hundreds of Virtual Machines.

THOUGHTWIRE

Toronto, Ontario

Junior Automation Developer

May 2016 – Aug 2016

- Developed a Java command line tool that analyzes data from HTTP requests/responses and reported violations.

SIDE PROJECTS

STUDENT PATHWAYS CHALLENGE

- Allows students to compare their current progress to any possible pathway that leads to a specific job.
- **Placed second out of more than 50** teams across Ontario and won a \$13,000 cash prize.