

# Ryan Newman

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Plan: 2A Computer Science, Software Engineering Option | Student ID: 20606427

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## SUMMARY OF QUALIFICATIONS

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- ❖ Constructed multiple complex, diverse and interesting side projects
- ❖ Works well independently and participates effectively in group situations
- ❖ Proficient in a wide range of programming languages including Java, Bash, C++, HTML, CSS and JavaScript
- ❖ Demonstrated practical problem solving skills through high rankings in multiple contests
- ❖ Excellent technical communication skills through active participation in team scrums and sprints
- ❖ Leadership experience developed through being a high school mentor and working with Right to Play

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## EXPERIENCE

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### THOUGHTWIRE

Toronto, Ontario

#### *Junior Automation Developer*

May 2016 – August 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
- ❖ Added multiple Java-based features to a platform test runner using ANTLR
- ❖ Wrote scripts in Bash and Python to run an installer against a specified set of target servers
- ❖ Performed functional and exploratory testing of an Android application including connectivity problems and LogCat analysis

### CRESCENT SCHOOL PROGRAMMING CLUB

Toronto, Ontario

#### *Vice President*

September 2014 – July 2015

- ❖ Coordinated and facilitated bimonthly meetings for the programming club
- ❖ Wrote problems, public tests and test cases to be marked by an online judge
- ❖ Structured problems around topics including arrays and iteration for juniors, lists and recursion for seniors

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## SIDE PROJECTS

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### EXODIUS ARENA

HTML/CSS/JavaScript

github.com/ryannewman2828/Exodius-Arena

- ❖ Web Application that allows users to register, add friends, send messages and play a game with unlockable content
- ❖ Application programmed with the use of the MEAN stack
- ❖ Uses numerous web technologies such as the REST API, Sass for styling and Gulp as a task runner
- ❖ End-to-end tested the website and unit tested the server using Jasmine and Protractor

### CAVE FIGHTER

Java

github.com/ryannewman2828/Cave-Fighter

- ❖ A Java based game in the style of Edmund McMillen's and Florian Himsl's, "The Binding of Isaac"
- ❖ Effectively developed using Object-Oriented Programming principles
- ❖ Used design patterns and practices for further extension in the future

### UW EVENTS

HTML/CSS/JavaScript

github.com/jondonas/uw-events

- ❖ Member of team that developed a Web Application that acts as a centralized hub for information about events on campus
- ❖ Events are dynamically pulled from an RSS feed and displayed on the site using PHP
- ❖ JavaScript and jQuery are used for the animations and dynamic scalability

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## EDUCATION

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### UNIVERSITY OF WATERLOO

Waterloo, Ontario

#### *Bachelor of Computer Science, Software Engineering Option*

September 2015 – Present

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## AWARDS

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### CANADIAN COMPUTING COMPETITION

University of Waterloo

#### *Certificate of distinction in the junior and senior division*

2014/2015

### EUCLID MATH COMPETITION

University of Waterloo

#### *Certificate of distinction*

2015

### DEANS HONOUR LIST

University of Waterloo

#### *Term Dean's Honour List*

Winter 2016