

**University Address:**  
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# Ryan J. Lough

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**Seeking a challenging co-op as a Software Engineer. Available January to June 2016.**

## EDUCATION

### Northeastern University, Boston, MA

Sept 2013 - Present

### College of Computer and Information Science

Expected Graduation: May 2018

Candidate for a Bachelor of Science in Computer Science / Minor in Computer Engineering

- Current GPA: 3.62 / 4.00
- Tutor for CS 3500 - Object Oriented Design
- Relevant Coursework: Networks & Distributed Systems, Algorithms & Data, Theory of Computation, Object Oriented Design, Embedded Design: Enabling Robotics, Computer Systems, Logic & Computation, Discrete Structures
- Activities: CCIS Peer to Peer Mentor, NUACM, NU Crew, Entrepreneurship Club, Husky Hunt Team Captain
- Honors: Recipient of merit-based Excellence Scholarship, Dean's List

### Simsbury High School, Simsbury, CT (Graduated with Honors)

June 2013

- TA for AP Computer Science; Relevant Coursework: AP Computer Science, AP Calculus, AP Physics, AP Statistics, AP English

## PROFESSIONAL EXPERIENCE

### Intuit, San Diego, CA

Jan 2015 - June 2015

Software Engineer Co-op, Finish and File Group

- Implemented major parts of the current TurboTax experience with new technologies as a key member of the company-wide replatforming effort and collaborated with the architecture team to build out the new architecture
- Completed bug and enhancement tickets in the scrum backlog using the agile methodology
- Created dashboards and regex-powered queries, alerts, and daily reports to monitor specific features, known bugs, and the overall health of the payment and filing section of TurboTax Online
- Monitored key metrics and problem solved issues that occurred at peak traffic during War Room shifts
- Refactored legacy code to reduce complexity and number of pages for the current experience
- Created script which removed all unused images (roughly 60%) within the payment and filing section of TurboTax

### UTC Aerospace Systems, Windsor Locks, CT

May 2014 - Aug 2014

Intern, Customer Response Center

- Designed and developed the CRC Contact Information website which consolidates hundreds of UTC internal and external contacts and site info into one centralized user friendly application, saving approximately 1800 hours/year
- Created automatic fail-safes for CRC cases that were open too long
- Collaborated with overseas group in the UK to automate several reports which previously took two hours/week
- Acted as liaison with India team to create CRC Submission form; found / fixed cross-site scripting security vulnerabilities

## COMPUTER KNOWLEDGE

- Languages: Java, C#, C, C++, Go, JavaScript, Python, Lisp-based languages, Assembly, Bash, HTML/CSS
- Frameworks: Node.js, Bootstrap, Handlebars.js, Underscore.js, jQuery, Google Cloud Messaging, JUnit, Mocha, Chai
- Tools: Perforce, Git, IntelliJ, Eclipse, Visual Studio, Vim, Sublime Text, WebStorm, JIRA, Splunk

## PROJECTS

### Automated Horse Race Betting and Historical Data Analytics → <http://git.io/vs3gr>

In Progress

- Written in C# and using SQLite to store serialized race data

### Android Messaging Application → <http://git.io/vs324> — <http://git.io/vs320>

July 2015

- Written using Java for the client and Golang for the server
- Google Cloud Messaging incorporated for realtime updates

### Tax Light

Mar 2015

- Worked with real customers resulting in a web app to help users feel comfortable with changes in their tax situation year-round
- Written using Go, HTML, CSS, Bootstrap, jQuery and hosted on Amazon Web Service's Elastic Beanstalk

### Mazer → <http://git.io/vs3gp>

May 2014

- Written using Java and an implementation of Kruskal's algorithm to randomly generate the mazes
- Currently live on the Google Play Store

## ACCOMPLISHMENTS / INTERESTS

- Eagle Scout: Order of the Arrow, Kevin Hanley Award
- Entrepreneurship, Machine Learning, Data Science, Mobile Development, New Technologies, Skiing, Wake Boarding, Kayaking