

# Ryan J. Lough

SOFTWARE ENGINEER · FULL-TIME

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Available January 2018

## Education

**Northeastern University - Expected Graduation: December 2017**

Boston, MA

**College of Computer and Information Science**

CANDIDATE FOR A BACHELOR OF SCIENCE IN COMPUTER SCIENCE

Sept. 2013 - Present

- Current GPA: 3.74 / 4.00
- Relevant Coursework: Machine Learning, Artificial Intelligence, Software Development, Programming Languages, Computer Systems, Theory of Computation, Networks & Distributed Systems, Robotics, Object Oriented Design, Linear Algebra
- Activities: Tutor for CS 3500 - Object Oriented Design, CCIS P2P Mentor, NUACM, Entrepreneurship Club, Ski Club, Husky Hunt Captain

## Experience

**Google**

Mountain View, CA

SOFTWARE ENGINEER INTERN, CLOUD

Jan. 2017 - April 2017

- Created and improved several plugins for analysing and diagnosing distributed services
- Improved performance of demanding log processing by over 98% and implemented method of retrieving critical logs that were previously impractical for engineers to obtain
- Identified technique to remove roughly 96% of log data prior to resource-intensive processing
- Contributed filesystem utility to the common Google Go ecosystem in order to remove and prevent code duplication

**InsightSquared**

Boston, MA

SOFTWARE ENGINEER CO-OP, MARKETING AND SALES ANALYTICS

Jan. 2016 - June 2016

- Improved performance and experience of current screens up to 95% increase in speed and 99.9% reduction in memory usage
- Implemented features and testing utilities to improve the accuracy of the machine learning predictive forecast suite
- Created 5 brand new sales and marketing reports sold as part of the core product and used daily by hundreds of small to large sales teams; these screens became main talking points when selling to sales and marketing companies

**Intuit, TurboTax**

San Diego, CA

SOFTWARE ENGINEER CO-OP, PAYMENT AND FILING GROUP

Jan. 2015 - June 2015

- Rewrote 20+ screens to improve replatforming, reduce complexity and reduce the number of pages for the current experience by 75%
- Collaborated with the architecture team to build out new technologies to improve scalability

**UTC Aerospace Systems**

Windsor Locks, CT

TECHNICAL INTERN, CUSTOMER RESPONSE CENTER

May 2014 - Aug. 2014

- Designed and developed the CRC Contact Information website which consolidate hundreds of UTC internal and external contacts and site info into one centralized user friendly application, saving approximately 1800 hours/year
- Automated alerting and reporting mechanisms to reduce case neglect and save roughly two hours/week

## Projects

**Racing Analytics**

Python, Django, C#, SQL

Gathered hundreds of thousands of horse racing results to find statistically significant patterns

Aug. 2015, July 2016

**Android-Server Messenger**

Go, Java

Created a realtime messaging application on Android that communicates with a RESTful Golang server

June 2015

## Computer Knowledge

**Languages** Python, Go, Java, C#, C, C++, JavaScript, R, Racket, Assembly, Bash, HTML/CSS

**Frameworks** Django, Numpy, Bootstrap, Handlebars.js, Underscore.js, jQuery, Node.js, Android

## Accomplishments

- 2016 **RETComputers**, Created electronics reselling company that netted over \$8,000 in the first three months
- 2015 **Rondevo**, Co-founded company that won second place at Northeastern startup competition and featured in Bostinno
- 2013 **Eagle Scout**, Achieved Order of the Arrow and Kevin Hanley Award