Ryan J. **Lough**

SOFTWARE ENGINEER · CO-OP / INTERN

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Available May to August 2017

Education

Northeastern University - Expected Graduation: May 2018

Boston, MA

College of Computer and Information Science

CANDIDATE FOR A BACHELOR OF SCIENCE IN COMPUTER SCIENCE / MINOR IN COMPUTER ENGINEERING

Sept. 2013 - Present

- Current GPA: 3.72 / 4.00
- Relevant Coursework: Artificial Intelligence, Software Development, Robotics, Computer Systems, Discrete Structures, Algorithms, Theory of Computation, Networks & Distributed Systems, 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 - Present

- Migrating and reworking system plugins in Go; improving performance by over 98%

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
- Updated marketing suite to support contact based workflows, saving the company and customers significant time and money

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 the new technologies to improve scalability
- Created dashboards, alerts, and daily reports to monitor the health of TurboTax and aid in problem solving issues at War Room shifts

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, Java, C#, C, C++, Go, JavaScript, Coffeescript, Lisp-based languages, 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	**Rondevoo,**	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