Ryan J. Lough

SOFTWARE ENGINEER · CO-OP / INTERN

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Available January 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: 3.7 / 4.0
- Relevant Coursework: Artificial Intelligence, Software Development, Robotics, Computer Systems, Statistics & Stochastic Processes, 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
- Honors: Recipient of merit-based Excellence Scholarship, Dean's List

Experience

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 and regex-powered queries, alerts, and daily reports to monitor the health of TurboTax and aid in problem solving issues during War Room shifts
- Automated the detection and removal of all unused images (roughly 60%) within the payment and filing section of TurboTax

UTC Aerospace Systems   *Windsor Locks, CT*

TECHNICAL INTERN, CUSTOMER RESPONSE CENTER   *May 2014 - Aug. 2014*

- 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
- Built automated system to alert employees to neglected, open cases and automated case creation
- Collaborated with an international group in the UK to automate several reports which previously took two hours/week

Projects

Racing Analytics   *Python, Django, C#, SQL*
Gathered hundreds of thousands of horse racing results to find statistically significant patterns   *July 2015 - PRESENT*

Android-Server Messenger   *Go, Java*
Created a realtime messaging application on Android that communicates with a RESTful Golang server   *July 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