

Matthew Poegel

Objective

Seeking opportunities to improve and apply my current skills in computer programming and data science as well as to learn new practices and techniques

Education

Rensselaer Polytechnic Institute	August 2013 - May 2017	Troy, NY
Expected dual bachelors degree in Mathematics and Computer Science		3.86 GPA

Undergraduate Research Assistant - working with Dr. Kristin Bennett in the Semantic Numeric Exploration Technology group in the Tetherless World Constellation and EMPAC to investigate new methodologies for visualization of semantic and numeric data. semnext.tw.rpi.edu/chem (Spring 2015 - Present)

Experience

May 2015 - August 2015	ViaSat	Carlsbad, CA
Software Engineering Intern		
<ul style="list-style-type: none">• Worked in team with one other intern to build an expandable monitoring platform for a large, scalable web application in development at ViaSat• Utilized Python, TypeScript, PostgreSQL, and Git and open source libraries Tornado, Graphite-Beacon, and Graphana.		
May 2014 - August 2014	Jacobs	Nashua, NH
Software Intern		
<ul style="list-style-type: none">• executed and edited test procedures for components of navigation software for military aircraft• responsible for running a formal government-witnessed test for a product release• worked with Team Foundation Server, Surround SCM, Test Track Pro, and Rational DOORS		
June 2013 - August 2013	Pennichuck Water Works	Merrimack, NH
GIS Engineering Intern		
<ul style="list-style-type: none">• traveled to customer locations and collected GPS data for the public water system in Nashua, NH		

Skills

- Skilled in C, C++, Git, Python, Matlab, JavaScript, MongoDB, HTML5, CSS3, Node.js
- Working knowledge of PostgreSQL, Arduino, AWS
- Capable of implementing and using linked lists, trees, hash tables, priority queues, polymorphism, inheritance, asynchronous computing
- Capable of performing data analysis on large data sets implementing LDA, PCA, Mean Method, K-means, linear models, Support Vector Machines, Neural Networks
- Proficient with Microsoft Office Word, Excel, PowerPoint, OneNote

Clubs and Activities

- ▶ Rensselaer Hackathon Organization: Club President, Fall 2015 - Spring 2016
 - Worked with club officers to coordinate hackathon transportation, workshops, and Hacks out of a Hat
- ▶ HackRPI 2016 Co-Director, HackRPI 2015 Director of Hospitality, HackRPI 2014 Organizer
- ▶ Pi Mu Epsilon (Mathematical Honors Society): member, Spring 2015 - Present
- ▶ Upsilon Pi Epsilon (Computer Science Honors Society): member, Fall 2015 - Present
- ▶ Open source projects: Status Board (github.com/mpoegel/HackRPI-Status-Board), CHeM Visualizer (semnext.tw.rpi.edu/chem), and more on my GitHub (github.com/mpoegel)