

# Matthew Poegel

## Objective

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

## Education

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Rensselaer Polytechnic Institute	August 2013 - May 2017	Troy, NY
Expected dual bachelors degree in Mathematics and Computer Science		3.92 GPA
<b>Intro to Data Mathematics</b> - high dimensional data modeling using Fisher Linear Discriminant Analysis, Principal Component Analysis, and K-means Clustering Method		
<b>Data Analytics Research</b> - independent study assisting Professor Kristin Bennett to analyze health care data and create a predictive model (Fall 2014)		

Alvirne High School	September 2009 - June 2014	Hudson, NH
4.07 GPA, ranked 4th in class of 331		

## Experience

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May 2014 - August 2014	Jacobs	Nashua, NH
<b>Software Intern</b>		
<ul style="list-style-type: none"><li>• executed and edited test procedures for components of navigation software for military aircraft</li><li>• responsible for running a formal government witnessed test for a product release</li><li>• worked with Team Foundation Server, Surround SCM, Test Track Pro, and Rational DOORS</li></ul>		
June 2013 - August 2013	Pennichuck Water Works	Merrimack, NH
<b>GIS Engineering Intern</b>		
<ul style="list-style-type: none"><li>• traveled to customer locations and collected GPS data for curb boxes, main valves, and fire hydrants in Nashua, NH with a Trimble unit</li><li>• part of a multi-million dollar investment to upgrade the computer database with a 21st century Geographic Information System</li></ul>		

## Skills

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- Skilled in C/C++, Python (2 and 3), Matlab, HTML5, JavaScript, JQuery, CSS
- 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 using LDA, PCA, Mean Method, K-means
- Proficient with Microsoft Office Word, Excel, PowerPoint, OneNote

## Clubs and Activities

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- RPI Security Club: member
  - Practice cryptography, steganography, IDA, and SSH
- Rensselaer Hackathon Organization: Hacks out of a Hat Lead Organizer, HackRPI Organizer
  - Attended Y-Hack 2013, HackNY Spring 2014, and HackRU Spring 2014
    - successfully demoed projects (see Github, header)