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Matthew Poegel

Objective

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

Rensselaer Polytechnic Institute	August 2013 - May 2017	Troy, NY
Expected dual bachelors degree in Mathematics and Computer Science		3.92 GPA

Intro to Data Mathematics - high dimensional data modeling using Fisher Linear Discriminant Analysis, Principal Component Analysis, and K-means Clustering Method

Data Analytics Research - independent study assisting Professor Kristin Bennett to analyze health care data and create a predictive model; worked with seismic data to locate the geological layers within the data (Fall 2014)

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

Experience

May 2014 - August 2014	Jacobs	Nashua, NH

Software Intern
- 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
- traveled to customer locations and collected GPS data for curb boxes, main valves, and fire hydrants in Nashua, NH with a Trimble unit
- part of a multi-million dollar investment to upgrade the computer database with a 21st century Geographic Information System

Skills

- 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 preforming data analysis on large data sets using LDA, PCA, Mean Method, K-means
- Proficient with Microsoft Office Word, Excel, PowerPoint, OneNote

Clubs and Activities

▶ 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 2013/2014, HackNY Spring 2014, and HackRU Spring 2014/Fall 2014
    - successfully demoed projects (see Github, header)