

# Paul Revere, IV

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## Education

### Rensselaer Polytechnic Institute

*Graduating May 2017*

Bachelor of Science in Computer Science, Minor in Economics  
GPA: 3.2

## Experience

### Rensselaer Polytechnic Institute

#### Scientific Computation Research Center (SCOREC)

Undergraduate Researcher

*September 2015 - Present*

- Currently working on a series of improvements for finite element analysis mesh generation software in C++.
- Goal is to make files for unstructured meshes more condensed and more easily managed.
- Creating a compressor with matching decompressor for mesh visualization files.
- Developing a system to allow for simultaneous writing of output files in massively parallel environments.

### Bechtel Marine Propulsion Corporation (BMPC)

#### Knolls Atomic Power Laboratory (KAPL)

Technical Intern

*June 2015 - August 2015*

- Worked on a confidential project for the United States Navy and United States Department Of Energy.
- Contributed to a large scale Java project used to reduce the input size for a scientific computing application.
- Implemented logic to pull out a representative set of data based on their characteristics.
- Reduced run time by orders of magnitude by cutting out redundant calculations
- Responsible for both source code and extensive testing of contributions.

### Rensselaer Polytechnic Institute

#### Rensselaer Center For Open Source Software (RCOS)

Open Source Developer

*January 2014 - May 2015*

- Contributed to an open source software project as a part of a team.
- Worked on a project called Vest, a Python project that analyzed data scraped from social network pages.
- Wrote the code to scrape webpages, crawl the various links they returned, and analyze the results.
- Learned fundamentals of working in a small group on a project that lasted several months.

## Technical Skills

Java  
C/C++  
Python

Git  
Subversion  
Linux

HTML/CSS  
Unit Testing  
LaTeX

## Relevant Courses

Algorithms  
Data Structures  
Operating Systems

Cryptography & Network Security  
Software Principles  
Discrete Structures

## Leadership

### Sigma Alpha Epsilon Fraternity

Recruitment Chairman

Managed a \$10,000 budget for nine months dedicated towards organizing recruitment events. Organized series of recruitment events and lead a fraternity of 60 members to recruit a new class.

Technology Chairman

*Officer of the year 2014*