Ryan T. Morey

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Education:

- Rutgers, The State University of New Jersey **May 2018**
  - Pursuing a Bachelors of Science in Mechanical Engineering with a double major in Computer Science
  - Enrolled in the School of Engineering Honors Academy
  - Fall 2014 GPA: 3.82/4.00
  - Relevant Coursework:
    - Fall 2014 : Calc III, Principles of Electrical Engineering, Engineering Mechanics: Statics, Intro to Computers for Engineers (Matlab-based course)
    - Spring 2015: Differential Equations, Intro to Linear Algebra, Basic CAD, Mechanical Engineering Computational Analysis and Design, Mechanics of Materials

Experience:

- Student Systems Programmer at Rutgers Open System Solutions **2015 - Present**
  - Responsible for maintaining open source software used by the university
  - Work on maintaining packages for CentOS 5 and 6, and Solaris
  - Work on developing a web application for OSS with Python, Flask, and MySQL
- Lead Programmer for Columbia High School's Varsity Robotics Team **2013 - 2014**
  - Used RobotC to program a student-built robot to compete in US First's FTC competition
  - Directed a team of three other programmers, working collaboratively with about five other team members
  - Contributed in a large part to the design and mechanical construction of the robot
  - Ranked #1 Team at the 2014 New Jersey State Championships
- Math is a Sport! LLC Lead Intern **2012 - 2014**
  - Wrote Python/Sage programs to generate Algebra and Calculus problem sets of 200+ questions each
  - Lead small teams of about four interns in producing problem set generators
  - Contributed to the design of Math is a Sport!'s iOS app, *Touch 'N Slide Calculator*
- New Jersey Governor's School of Engineering and Technology **2013**
  - Selected as one of 88 scholars in New Jersey to participate in an engineering summer program at Rutgers University
  - Worked with two other students on a project titled *Parallelizing Programs for the Multicore Era*
    - Demonstrated ways to use the multi-threading capabilities of modern CPU's

Awards/Recognition:

- New Jersey Science League - 7th place statewide **2013 -2014**
  - Competed in the AP Physics C exam competition
  - Ranked 7th individually in the state out of several hundred participants
  - Contributed to Columbia High School's team winning 4th place statewide
- John Phillips Sousa Band Award and National Marching Band Award **2014**

Activities/Leadership/Interests:

- High School Marching Band High Brass Section Leader **2012 - 2014**
  - Lead and taught about eight trumpet players and about three mellophone players each year
  - Organized and conducted sectional rehearsals, resolved any conflicts within the section
- Boy Scouts of America Troop 21 Patrol Leader **2010 - 2012**

Skills:

- Computer Programming
  - Experienced in Python, HTML, Matlab, Java, C, BASH scripting
  - Experienced using the Git version control system
  - Proficient in CSS, Javascript, Perl, LaTeX typesetting
  - Very experienced in Linux, used on a daily basis
  - Experience in multithreaded programming, specifically in C, using pthreads
- Office Software: Word, Excel, PowerPoint
- Moderate experience with 3-D Printing using MakerBot Printers

References available upon request