David J. Bieber

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Education	**Princeton University**	**GPA: 3.68/4.0**	**Princeton, NJ**

Candidate for Bachelor of Science in Engineering degree in Computer Science, June 2014.
Relevant Coursework: Number Theory, Introduction to Programming Systems, Advanced Physics (Mechanics), Advanced Physics (Electromagnetism), Advanced Programming Techniques, Honors Linear Algebra

Union College   **GPA: 4.0/4.0**   **Schenectady, NY**
Courses: Algorithm Design and Analysis, Numerical Methods, Web Programming

State University of New York at Albany   **GPA: 4.0/4.0**   **Albany, NY**
Courses: Differential Equations, Linear Algebra, Computer Security Basics

Software Experience

Psychoanalytic Electronic Publishing, Inventory Manager   **Niskayuna, NY: August 2007-2010**
- Validated data from psychoanalytic journals for electronic publication. Contacted journal liaisons to retrieve corrections to incomplete or corrupt journal data. Organized journal backups to expedite searching.

Rensselaer Polytechnic Institute, Open-Source Software Intern   **Troy, NY: Summer 2008**
- Created an open source tool for learning physics as part of independent research project with one other student.

Independent Programming   **2003-Present**
- Developed several games for PC, Zune, TI calculators, and online, including a Scrabble clone, a BlockDude clone, a maze generator, and a number of puzzle games.
- Other projects include a fractal explorer, a maze solver, and a sentential logic validator.

Leadership Experience

MATHCOUNTS   **Niskayuna, NY: 2008-2010; Princeton, NJ: 2010-Present**
- Coached 8-16 middle school students each year in preparation for MATHCOUNTS competition, leading Van Antwerp Middle School team to place first in Capital District region in 2010.
- Organized and ran a MATHCOUNTS scrimmage for 36 middle school students.
- Organized and ran a one week summer math camp for middle school students. Camp ran for three summers.

Albany Area Math Circle   **Niskayuna, NY: 2003-2010**
- Met weekly to solve and discuss challenging contest math problems.
- Competed in many math competitions, including USA Math Olympiad, Princeton University Math Competition, Harvard-MIT Math Tournament, American Regional Math League, and NY State Math League.

Technical Skills

Experience with Java, C, Python, C#, ActionScript 3.0, Lisp, Web Development (PHP, CSS, HTML, JavaScript, Ajax), MySQL, Octave, FTP, SVN, IA-32 Assembly, Bash, Linux on System Z

Honors and Awards

Leadership:
Named Coach of the Week by MATHCOUNTS in March 2010.
Named "Heart" of Albany Area Math Circle for contributions to the group.
Computer Science:
Top scoring freshman-sophomore team at 2010 regional ACM Programming Competition.
2nd place winner of IBM: Master the Mainframe competition of over 3000 competitors nationwide.
Four time 1st place team at annual Siena Programming Contest, including two perfect scores.
Gold Division qualifier in USA Computing Olympiad.
Awarded RIT Medal in Computing.
Math and Science:
Combinatorics and Number Theory finalist at Princeton University Math Competition.
New York Math League perfect scorer.
Qualifier for USA Math Olympiad, and six time qualifier for American Invitational Mathematics Exam.
Qualifier for semifinals of USA Physics Olympiad contest.
Earned 16 medals over four years from Science Olympiad state and regional competitions.
Academic:
National AP Scholar; National Honor Society Member; SAT: 800M/800W/800R