

# Casey Smith

<http://www.caseysmith.net>  
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**Objective:** Software development of tools for scientific analysis.

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## Education:

**Cornell University**, Ithaca, NY

Graduate Student in Computer Science pursuing a Ph.D.

**National Science Foundation Graduate Research Fellow**

**Swarthmore College**, Swarthmore, PA

Bachelor of Science Major in Engineering and Bachelor of Arts Major in Computer Science, June 2002.

**Thomas B. McCabe Award**, awarded to the outstanding engineering student in the graduating class.

**Tau Beta Pi Engineering Honor Society**, Pennsylvania Kappa Chapter Treasurer

**Sigma Xi Research Honor Society**, member

**Phi Beta Kappa**, member

**Purdue Award**, awarded to the rising senior engineer with the highest GPA.

GPA: 3.99 / 4.0

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## Experience:

**Teaching Assistant for Empirical Methods in Machine**

*Fall 2003*

**Learning and Data Mining**, Cornell University

Graded and worked one-on-one with students in a masters level computer science course.

**Scientific Tools Developer**, LOICZ Project, Swarthmore College.

*Summer 2002 to Summer 2003*

Designing and implementing a software package for cluster analysis of multivariate data using C++, PHP, and MySQL. <http://narya.engin.swarthmore.edu/disco>

**Research Assistant**, LOICZ Project, Swarthmore College.

*Summer 2000 to Spring 2002*

Developed a web-based application for data-driven typology of geospatial data using cluster analysis. Over 11,000 lines of Perl code and 12,000 lines of C++. <http://palantir.swarthmore.edu/loicz/>

**Clinician for Physical Systems Analysis II**, Swarthmore College

*Spring 2002*

Provided one-on-one tutoring for students in a Sophomore level engineering course.

**Webmaster: Career Services**, Swarthmore College.

*Summer 2000 to Spring 2002*

Created and maintained the Career Services Office's web page.

[http://www.swarthmore.edu/Admin/career\\_services](http://www.swarthmore.edu/Admin/career_services)

**Grader for CPSC 35: Algorithms and OOP and CPSC 21: Unix and C**, Swarthmore College.

Read, compiled, and commented on students' code.

*Fall 1999 and Spring 2000*

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## Computer Skills:

**Languages:** C, C++, OpenGL, Perl, PHP, MySQL, Java, MATLAB, JavaScript, CSS, HTML

**Operating Systems:** Unix, Linux, Windows 95/98/NT, and MacOS

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## Other Skills and Interests:

Bass in College Chorus

Classical and Rock Guitar

Stunt Kite Flying

Tennis

Juggling

Astronomy

Hiking

Climbing

Ice Hockey