William Zeller

Education

Princeton University, Princeton NJ — Fall 2006 -
PhD Candidate, Computer Science
GPA
- 4.0 (after one semester)

Trinity College, Hartford CT — June 2006
Bachelor of Science, Computer Science
Honors Project: Pitch based tune identification
- Major: Computer Science
- Minor: Legal Studies

GPA
- General: 3.74

Research

Research Assistant, Trinity College, Hartford, CT — Summer 2004
- Rewrote big number library as object oriented C++ library for use in a public key cryptosystem (extension of Summer 2003 project)
- Ran timing tests on algorithms to determine which was best suited for library
- Implemented prime generation algorithms and factoring algorithms (Pollard's rho)

Research Assistant, Trinity College, Hartford, CT — Summer 2004
- Researched and compiled information on various historical cases/events for a constitutional law and civil liberties textbook
- Administered system to manage references and documents

Research Assistant, Trinity College, Hartford, CT — Winter 2003-2004
- Researched JSP for new chapter in Java textbook
- Setup Tomcat server
- Converted cryptographic cipher program from Java applet to JSP site.

Research Assistant, Trinity College, Hartford, CT — Summer 2003
- Created big number library in C for use in a public key cryptosystem
- Implemented various mathematical routines (binary exponentiation, Karatsuba multiplication, etc)
- Used big number library to create a working version of RSA

Teaching Assistantships

- *Data Structures & Algorithms* — Fall 2005
- Mathematical Foundations of Computing — Spring 2005
- Introduction to Computing — Fall 2004
- Introduction to Internet Computing — Spring 2004
- Introduction to Computing — Fall 2003

Awards

Travelers Companies Foundation Senior Research Prize — Spring 2006
- "...awarded to student(s) whose senior research project(s) in the field of Computer Science and Engineering has been deemed the most outstanding by an independent board chosen from Trinity faculty and The St. Paul Travelers staff."

Bronzell Dinkins Award — Spring 2006
- Given yearly to a senior for service to the CS department.

Presidential Fellow in Computer Science Fall 2005

- "The Presidential Fellowship is generally awarded by the faculty to the top Computer Science major".

Ralph E. Walde Prize in Computer Science Spring 2005

- "The prize recognizes a rising senior computer science major who has demonstrated outstanding academic achievement in computer science."

Skills

Languages

- C, PHP (7 years) Javascript (5 years), C++ (4 years), Java (2 years), ML (1 year), Perl (.5 years) 4 Years

Other Languages 3 Years

- HTML (4 years), XML, CSS (3 years)

Frameworks 3 Years

- MFC (3 years), wxWidgets (2 years) 2 Years

Work Experience

Systems and Networking Intern Summer 2005
Trinity College Computing Center

- Updated legacy Perl code
- Involved in the development of a fiber optics network planning and mapping web based application.
- Implemented shortest paths algorithm to calculate shortest paths between switches on campus network
- Updated and administered Linux and Windows computers

Articles/Presentation

Co-authored article for "php|architect" magazine entitled "Flocking to Seagull" Oct/Nov 2005

- Introduces developers to an MVC framework called Seagull
- Complete tutorial covering installation and creation of sample website

Panelist at Brown University Talk July 2005
"In the Hot Seat: Intellectual Property"

- Discussed impact of Grokster decision and student piracy.
- Other panelists included an IP lawyer and the head of Brown's computing center.

Presented at Student Science Symposium, Trinity College Spring 2004, 2005

- Described algorithms and methods used in my implementation of a public key cryptosystem

Panelist at Trinity College's Constitution Day September 2005

- Discussed Constitution with students

Personal Projects

Zempt: An open source cross-platform blogging client 2003-2004

- Lead programmer until 2004
- Developed using C++ and wxWindows

myTunes: A file sharing tool for use with Apple's iTunes 2003-2005

- Developed using C++ and MFC
- Downloaded over 3,000,000 times