



# Christopher Thilges

[ChrisThilges@gmail.com](mailto:ChrisThilges@gmail.com)

1- (219) 863-9935

**EDUCATION:** **B.Sc. 2008** [Purdue University](#)    **O** [Computer Science](#)    **Ω** [Political Science](#)

**Operating Systems:** Solaris, Ubuntu, Windows

**Languages:** C/C++, Java, .Net, HTML, ASP, PHP, XML, SQL, Bash, Yacc, Sparc

## Selection of Projects:

**C ~ Malloc** – developed a memory allocator and managed coalescing. (solo)  
Made system calls to the kernel which returns memory from the heap which can be non-sequential.  
A system to manage these memory gaps was needed for large requests and efficiency.

**C ~ Unix Shell** – built a shell interpreter similar to bash. (solo)  
This included piping, forking, the killing of zombie processes, and basic wild carding.

**C++ ~ VoIP** – instant messaging client with voice communication using MFC. (2 persons)  
Developed TCP/IP conversation in C and used MFC for windowing and sound capture. The first instance of the application within a local network became the server and each following instance became a client.

**.Net ~ Cell Phone Navigation** – a pedestrian mapping system of the Purdue campus. (5 persons)  
Worked on UML design, documentation, and a recursive algorithm to load XML data into a .Net treeView.

**University Reference:** [Bharat Bhargava](#)    [bb@cs.purdue.edu](mailto:bb@cs.purdue.edu)

## EMPLOYMENT HISTORY

2009 (6 months) [Green Iowa AmeriCorps](#) / Cedar Falls, IA

**Service in AmeriCorps Teams providing for the community:**

- Energy education, construction, and home energy audits.

[christhilges.com/ameriCorps](http://christhilges.com/ameriCorps)

2008 (6 months) [Discovery Park](#) / Purdue University - W Lafayette, IN

**Student Web Developer – HTML, CSS, PHP, SQL, Photoshop**

- Worked with development and marketing teams to enhance the park's websites.

Supervisor: [Pankaj Sharma](#)    [sharma@purdue.edu](mailto:sharma@purdue.edu)

2006 (3 months) [Donlen Corporation](#) / Northbrook (Chicago), IL

**Intern Software Developer – HTML, PHP, JAVA, XML, XSL**

Created PDF document processing software to automate paper flow using:

- XSL-FO compiled with Apache Formatting Objects Processor.
- iText to serve Acrobat templates completed with user data in PDF format.

Supervisor: [Dennis Straight](#)    [dstraight@donlen.com](mailto:dstraight@donlen.com)

2005 (3 months) [Sandy Pines Golf Course](#) / Demotte, IN

**Greens Crew**

Supervisor: [Cary Jeffries](#)    (219) 863-5059

2005-03 (2 yrs) [Agricultural Economics](#) / Purdue University

**Student Web Developer & Tech Support – HTML, ASP, SQL, Dreamweaver**

Helped implement and maintain:

- Student web portal MyAgEcon with similar functionality to Blackboard.
- Staff and faculty requests promoting courses, lectures, and research.
- WIN 2000/2003 IIS, MS-SQL 2000, and Akiva Webboard 4/7 Servers.

Supervisor: [Jeff Greiner](#)    [jgreiner@purdue.edu](mailto:jgreiner@purdue.edu)

**INTERESTS:** Soccer, Recycling, Coffee, Star-Craft.

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