

# Stephen A. Holsapple

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## Technical Expertise

Languages	Java, C, Perl, Python, Scheme, F#, C#, PHP, JS, LaTeX
APIs	OpenGL, Swing, Javadoc, JUnit, JSON, Lex, Yacc
Software	Eclipse, VIM, SVN, Apache/MySQL/PHP, cPanel/WHM, IIS 7, MSSQL 2008, Tomcat, Stanford Parser, Hadoop
Systems	Linux, Windows XP/Vista/Server, OSX

## Professional Experience

Arvix Web Solutions, San Luis Obispo, CA  
System Administrator/Support Technician/Developer 2007 – Present

San Diego Door & Window, San Diego, CA  
Executive Assistance/System Administrator 2005 – 2007

## Accomplishments

### Academia

- Programmed various low level projects: Huffman compression/decompression (2007), lightweight threading library (2008), virtual file system with Fuse (2008)
- Programmed various high level projects: pipe-enabled shell (2007), optimal puzzle solvers using dynamic programming (2008), artificially intelligent search algorithms (2009), interpreter and compiler (2010), bit torrent client (2010).

### Work Related

- Installed, deployed and manage a distributed Nagios monitoring system (2009).
  - Deployed on over 200 hosts.
  - Customized with additional checks/event handlers with Perl (now Python).
  - Automated installation for new hosts.
- Written various installers for software services like Tomcat or SVN.
- Wrote a proxy server to mask Arvix's security information from staff.
- Attended HostingCon 2010 in Austin, TX to research new solutions for Arvix.

## Education

California Polytechnic State University, San Luis Obispo, CA  
M.S. Computer Science – Graduation date: Spring, 2012

## Interests

I'm particularly interested in the fields AI and distributed computing. For AI, I'm interested in NLP and languages, and have several hobby projects that emphasize this interest. Regarding distributed computing, I've spent a lot of time at work researching cloud computing and parallel computing to see how Arvix can benefit from cloud solutions. I'm also studying this field in more depth while I earn my MS degree on a distributed shared memory system. I'm a blogger at <http://blog.gnucom.cc>.