

<http://www.chadarnold.com>

COMPUTER SCIENCE APPLICATION

- Engineered an online management system, iCreateTheWeb.com, to allow for users with limited knowledge of web-building tools, to create and design their own website within minutes.
- Modeled a classroom assistance tool, at California Lutheran University, to allow students to participate in lectures remotely.
- Incorporated a centralized database into a desktop application and a website using Visual Basic.NET & ASP for a video company to handle store transactions and show availability of media on the internet.
- Designed, coded, and tested an instant messaging and discussion board system, written in Visual Basic.NET, with a team of 4 people. Also engaged in expert reviews and usability tests.
- Using C++, programmed the backend to a buffer pool manager to model how a database works when SQL statements are executed. Additionally, created client and server applications using socket programming to show their interaction over a network.
- Developed an interactive photo album website, using PHP, for sharing pictures over the internet.
- Created a completely dynamic website, using ASP, for the Indiana Music Teacher's Association with a database content management system that enables users to edit their sections of the website.
- Designed, created, and managed the Delta Upsilon Fraternity website which included an alumni search database, discussion board, exam archive, and virtual tour, for 1000+ alumni & 70 active members.
- Created a website for a Japanese instructor, using ASP, for her students to practice verb conjugations.

WORK EXPERIENCE

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| May 2005 – Current | The Aerospace Corporation | Los Angeles, CA |
| <ul style="list-style-type: none"> ■ Prototyped a Traffic Engineering Guidance tool for the program office to assist in designing advanced networks from a suite of networking protocols. ■ Suggested and later constructed an alternative approach and database system to document and interrelate networking protocols for the Beowulf Network Emulation Tool (BeoNET). ■ Participated frequently in several design and program reviews of GPS IIF flight software in addition to identifying potential threats, producing risk analysis reports to the colonel when appropriate. ■ Lead a team consisting of myself and two others to interpret and understand TSP (Telemetry Specification Processor), enabling the creation and compilation of diagrams and documentation for its User's Guide and Programmer's Manual while providing further complexity analysis on the code. ■ Designed, developed, and implemented a web-based application to input lessons learned for the Independent Readiness Review Team (IRRT) which is used by 20+ members of the Software Panel. | | |
| Aug. 2005 – May 2006 | Special Projects Team – Student Director | Greencastle, IN |
| <ul style="list-style-type: none"> ■ Coordinated and led training sessions for each of the apprentices in the department. ■ Redesigned the DePauw University Computer Science department website adding dynamic capabilities. | | |
| May 2005 – Aug. 2005 | The Aerospace Corporation | Los Angeles, CA |
| <ul style="list-style-type: none"> ■ Created a project proposal management system providing division managers the ability to submit proposals online for viewing, approving, funding, and trending by the company. ■ Upgraded the hardware and software in the UNIX systems for the S.T.A.R.S. room which monitors all the space launches in Cape Canaveral, FL and Vandenberg, CA. ■ Obtained a Secret Security Clearance by the federal government. | | |
| Feb. 2004 – May 2005 | Faculty Instructional Technology Support | Greencastle, IN |
| <ul style="list-style-type: none"> ■ Assisted a diverse group of faculty and staff with presentations, video production and websites. ■ Taught myself PHP, ASP and Macromedia Flash at the office and became the in-house expert on these languages after incorporating the scripting language. ■ Helped facilitate group projects and mentored apprentices teaching them about design, programming and the use of technology on campus. | | |
| Dec. 2003 – Jan. 2004 | Saurian Technologies | Indianapolis, IN |
| <ul style="list-style-type: none"> ■ Served as a consultant to help find effective solutions to business needs. ■ Installed and configured numerous wireless networks for clients. | | |

EDUCATION

GRADUATE **California Lutheran University** **Masters of Science Degree** **February 2008**

- Major: Computer Science.
- Graduated with high honors and a 3.9 GPA of a possible 4.0 scale.
- Member of ACM (Association for Computing Machinery) committee.
- Provided volunteer relational database design and implementation lessons to students.

UNDERGRADUATE **DePauw University** **Bachelor of Arts Degree** **May 2006**

- Major: Computer Science, Minors: Spanish and Math.
- Member of ITAP (Information Technology Assistance Program).
- Active in DePauw Community Service, the Men Against Rape organization, and intramural sports.
- Involved member of Delta Upsilon Fraternity – held positions of Webmaster, Alumni Chair and Historian.
- Member and Chair of local ACM (Association for Computing Machinery) group for three semesters.

VOLUNTEER WORK

- Constructed dynamic websites for Beathouse Music Group, Indy Exploring, Inc. and the Belmont High School basketball team.
- Provided consultation to Rincon-Vitova Insectaries to assist in the redesign of their website and backend management system.
- Ecuador Service Trip – for 3 weeks, I helped over 800 people in the classroom and in the medical clinics.