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## **OBJECTIVE**

A position in software engineering or a related field in which I can combine my end-user knowledge with my experience in application development to create powerful cutting-edge software.

## **COMPUTER SKILLS**

### **Programming Languages And Frameworks**

ASP, C, C++, Cocoa, Java, Javascript, MIPS Assembly, Objective-C,  
Pascal, Perl, PHP4, PPC Assembly

### **Operating Systems**

Mac OS/Mac OS X, Sun Solaris, Linux, DOS, Windows 3.11/95/98/2000/XP

## **WORK EXPERIENCE**

### **Software Engineer**

Solutions Advancing People, Inc., Stone Mountain, GA. November 2002 - Present

- Responsible for mission critical systems to insure delivery of content via remote servers and seamless integration with local computer systems.
- Ported two major ASP applications and components from a Microsoft Windows 2000 server to a Linux-based server. This involved translating MS Access queries to ANSI SQL99 queries with mySQL extensions and cleaning up JavaScript code to allow access to the filesystem in a system independent manner.
- Brought all design and development decisions for new and existing applications under a controlled development environment. This involved setting up a CVS repository in a chrooted environment.
- Created a functioning PHP system by modifying an existing commercial product to meet specifications. By fully understanding the code base and its flow in a short period of time we ensured modifying the software did not break or hinder the future updating of the vendor CVS branch. The software is fully functional on a website that receives approximately 15,000 unique visitors per day.

### **Research Assistant**

The University of Georgia, Athens, GA. June 2001 - May 2002

- Collaborated on the design and implementation of an ASIC chip as part of a professor's research on hardware acceleration for physical modeling of deformable objects. A patent is pending on the chip.
- Wrote VHDL for floating point divider using the Alliance design tool. The collaborative design was sent to MOSIS for fabrication.
- Built transistor-level logic for the ASIC design using Magic, the VLSI CAD tool, for layout and Spice for simulation.

### **Software Engineer Intern**

XLR8, Inc., Duluth, GA. May 2000 - August 2000

- Provided technical support to users via Internet-based and phone-based communication on all of

XLR8's products. This included all of the company's upgrade cards as well as software, including MACH Speed Control, Interview, and software for the Point&Scroll mouse.

- Maintained and developed internal software written in C++ using the Metrowerks PowerPlant framework. The software generated serial numbers used for XLR8 products.
- Fixed eight bugs in the Point&Scroll software by quickly learning and understanding the codebase.
- Localized the Point&Scroll software to two additional languages. Point&Scroll software is now available in English, German, and French.
- Researched and developed Mac OS X functionality for XLR8's MACH Speed Control application.

### **Service Technician**

CompUSA, Duluth, GA.

February 1996 - June 1999

- Provided CompUSA customers with technical support for a wide range of products.
- Diagnosed and repaired customer computer equipment in a timely manner. This included all operating systems, peripheral devices and system platforms.
- Worked as a team player to achieve individual and team completion goals. This was achieved by completing work efficiently without incurring customer returns.

### **Program Director**

Atlanta Mac Users Group (AMUG)

December 1996 - December 1997

- Organized monthly general meetings for a base membership of 800.
- Publicized and attracted members and non-members to monthly meetings.
- Served as a voice on the AMUG Board of Directors. Helped give direction to the User Group and provided tangible offerings to the Macintosh community.

## **PROJECT EXPERIENCE**

- Engineered a compiler for a given subset of C called micro-C to specifications.
- Created software in C to solve NP-complete problems using evolutionary computation methods. The software solved such problems as the N-Queens problem and the subset sum problem.
- Designed a large scale dynamic web application using Java servlets and a database in a team environment. The team completed the software engineering process from start to finish though the use of UML in Rational Rose and presented the project on time fully functional.
- Programmed and tested PLCs and a microcontroller as part of embedded systems curriculum.

## **EDUCATION**

### **The University of Georgia**

B.S. in Computer Science with Minor in Music

### **Certifications**

Yamacraw Certificate in Software Engineering, VLSI Systems Design, and Embedded Systems.  
A+ Certificate

## **INTERESTS & ACTIVITIES**

- Play the Saxophone in Classical and Jazz styles.
- Backpacking and Hiking