

Brad Parker

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EDUCATION

Aug 1999 – Dec 2003 North Carolina State University Raleigh, NC
B.S. Computer Science, B.S. Applied Math
▪ GPA: 3.63, Computer Science GPA 3.70
▪ Spanish Minor
▪ **Courses of Interest:** Computer Organization and Assembly Language, Operating Systems, Computer Networks, Human Computer Interaction, Software Engineering, Java, C++, Technical Communication for Engineers

WORK EXPERIENCE

Aug. 2004 – Current SAIC, Science Application International Corporation Arlington, VA
Software Engineer, Advanced Concepts Business Unit: Support in the software development, systems engineering, and integration of embedded systems for use on tactical UAVs in support of government initiatives. Rapid prototyping to emulate existing systems and demonstrate capability. Derived and implemented equations of physical phenomena, and integrated with 3D models of physical systems for simulation and analysis. Contributed to the rapid development and modification of web-based and stand-alone software projects in a collaborative environment using concurrent versioning systems. Assisted in development of web-based project management tools to support DTRA and government initiatives. Designed and evaluated user interfaces. Ensured software security and consistency with a complex matrix of user privileges. Wrote test cases for software validation. Performed software testing.

Apr. 2004 – July 2004 Timber Drive Elementary Garner, NC
Teaching Assistant: Tutoring students in grades 3-5. Substitute teaching for grades K-5.

Sep. 2002 – July 2004 LifeWay Christian Store Cary, NC
Retail: Assisting customers in various ways, placing orders, operating cash register and computers (Part-time)

Feb. 2001 – Sept 2002 Stewart Theatre at NC State University Raleigh, NC
Tech Crew: Adjusting lighting, setting up equipment, etc. (Part-time)

May 2001 -Aug 2001 Alcatel Raleigh, NC
Intranet Developer, Product Integration Engineering Team: Designed and implemented a web-based program for estimating the cost of proposed new products. Development included extensive use of Perl, HTML, JavaScript and databases.

SUMMARY OF SKILLS AND EXPERIENCES

- Computer Skills: Java, C++, C, Fortran, HTML, Perl, PHP, MySQL, JSP, Hibernate, Struts, JavaScript, XML, AJAX, Unix, Linux, Windows XP, Windows XP Embedded, Windows 2000, Apache, Microsoft IIS, Java3d, Ogre3d
- Engineering Skills: aerodynamic, mechanical, electrical analysis, manual and computer drafting
- Interim Secret Clearance
- Have worked with or currently working with Defense Threat Reduction Agency (DTRA), Defense Advanced Research Projects Agency (DARPA), General Atomics-Aeronautical Systems, Inc. (GA-ASI), Naval Research Labs (NRL)

OTHER EXPERIENCE

- Designed and implemented personal and private web pages and web scripts.
- Experience running Windows-based web servers and hosting personal web sites.
- Extensive troubleshooting experience with hardware and software.
- Managed a five-person software design team in an academic environment.
- Measured, modeled, and predicted system performance for large capacity filer systems.
- Developed mathematical models for aerodynamic and mechatronic systems.

AWARDS RECEIVED

University Scholar, Member Phi Kappa Phi, Caldwell Merit Scholarship, Eagle Scout, National Merit Scholarship, Robert C. Byrd Scholarship