

Ross A Bell

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Objective: To further my career in software development and continue to find myself in professional roles that mean so much more than financial compensation.

Education:

B.S. Computer Science	Fall 2003 – Spring 2008
University of Nebraska at Omaha	GPA: 3.4/4.0
GRE: Verbal-580 Quantitative-750	1330/1600

Special Projects:

- Owner and developer of JMacro (Java, <http://www.jmacro.org>)
- Developer (95% of code) of Toaster Tales (academic, C, GBA API, <http://www.rossallenbell.com/funstuff/>)

Work Experience:

Backstop Solutions Group	02/2010-Current
Software Developer	

- Developed e-mail synchronization service (Thrift, Java)
- Designed and developed liquidity engine service (Thrift, Drools, Java)
- Primary developer involved with hiring new developers for our team

Datatrak	11/2008-12/2009
Software Developer	

- Supported the release of versions 8.0 and 9.0 of core eClinical software from beginning to end of development cycle (Java, JSP, Oracle)
- Completed over 15 custom development requests from customers desiring unique functionality in their license of our eClinical software

Texas A & M University – Sacchettini Laboratory	05/2008-10/2008
Bioinformatics Research	

- Designed and implemented (Python) an algorithm that would efficiently create a representative subset of chemical compounds when given a larger library of compounds (approximately 3M compounds represented by a set of 50k compounds)
- Assisted in analysis of genome sequence data by developing genome sequence library management software and tools to help piece together genome sequence fragments (Java)

Raytheon IIS	01/2008-05/2008
Senior Tech Student	

- Supported AWIPS program by migrating roughly 10,000 lines of C code into core Java classes used within AWIPS

Work Experience (Continued):

NASA – Air Traffic Operations Laboratory 09/2007-12/2007
Undergraduate Student Research Program

- Designed and implemented data analysis software that would replay test scenario data in a visual, interactive, 3D environment (Java, Java3D, MySQL, <http://www.rossallenbell.com/funstuff/>)
- Assisted in lab demos given to visitors and clients
- Assisted with daily lab duties including hardware maintenance and lab re-configurations

Raytheon IIS 06/2007-08/2007
Senior Tech Student

- Migrated mock-up of home-grown risk and opportunities management software from Netbeans to a working prototype free of any Netbeans library/build dependencies (Java)
- Supported over 5 software development tickets from beginning to end

University of Nebraska at Omaha 11/2006-05/2007
Distributed Artificial Intelligence Research - Dr. Prithviraj Dasgupta

- Contributed towards research of a swarm-based AI solution for the exploration of asteroids in our solar system's "Main Belt" (orbits between that of Mars and Jupiter)
- Used AI robotics program "Webots" and accompanying API (Java) to demonstrate basic swarm AI concepts used in our proposed solution

Union Pacific Railroad 03/2005-09/2006
Mechanical Dept. Web Developer (Intern)

- Created web application used by mechanical support desk to track and field mechanical problem tickets for locomotives (ColdFusion, Oracle)
- Developed one-to-multiple page web reports requested by various members of UP's Mechanical Department
- Maintained SQL Server and Oracle databases

Relevant Coursework:

- C++ I/II
- Java Intro/Advanced
- Computation Theory
- Operating Systems
- Game Programming
- Web Programming

Honors/Activities:

- Fall 2007 NASA Undergraduate Student Research Program
- Dean's List for semesters: Fall 2003, Spring 2004, Spring 2005, and Spring 2006
- Silas P. & Catherine C. Gist Scholarship 2003/2004 academic year
- BAE Systems Student Support Fund 2003/2004 academic year
- Mockett Memorial Scholarship 2004/2005 academic year

References:

Available Upon Request