

Michael L. Warren

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North Carolina State University, Raleigh, NC

Computer Science, Mathematics Minor, May 2010

GPA 3.930/4.0 overall (*Summa Cum Laude*)

Computer Skills: Java, C, JSF, HTML, CSS, Spring, Tomcat, Maven, Bash, Shell Scripting, XML, MySQL, MSSQL

Software Developer, Sensus, RTP, NC

November 2010 to Present; Full Time/Salaried

Design, write, test, and maintain enterprise software for Sensus AMI Smart Grid technologies using Java technologies and frameworks. Work closely with customers to implement modifications to existing products, meet and exceed customer needs with custom solutions, and provide expertise with software implementations and integrations. Exercise knowledge of entire software stack at Sensus to develop solutions pertaining to the data layer, business logic, and presentation layer. Adapt quickly to new challenges and learn new technologies quickly in order to meet demands of multiple customers and projects.

Software Engineer Co-op, IBM, RTP, NC

May 2010 to November 2010; 40 hrs/wk

Planned and developed conditioned test data to be implemented on the IBM zNetView Suite. Use Java effectively to parse zOS machine code to and from XML. Worked effectively with teammates to complete software development tasks according to the Agile software development method.

Teaching Assistant, NCSU Distance Education, Raleigh, NC

August, 2009 to December, 2009; 20 hrs/wk

Graded projects, tests, and homework for students in Intro to Computer Science using C++. Communicated effectively with students both on campus and off campus using email, message board postings, and face to face meetings. Have the ability to explain computer science topics effectively to individuals with no prior programming experience.

Software Engineer Co-op, IBM, RTP, NC

May, 2008 to March, 2009; 40 hrs/wk

Wrote, maintained, and updated custom Install Shield code in Java for various IBM software products. Managed programming and defect tracking for multiple projects. Communicated effectively with other members of my team and with clients who work with the Install Strategy and Development group.

Quality Assurance, GeeVee Inc., Apex, NC

October, 2007 to April, 2008; 15 hrs/wk

Assured quality in website design and features. Performed black box integration and regression testing as new website features were developed, reported bugs, and communicated with developers to explain problems and ensure bugs were fixed in a timely manner.

Research Experience

Undergraduate Research with Dr. Nagiza Samatova (Spring 2009)

Discovered the benefits of using active storage methods with parallel supercomputing systems. Wrote statistical functions for the ADIOS (Adaptive IO) library and performed analytics on large scale scientific data using these functions.

Notable Undergraduate Coursework

CSC326: Software Engineering

Developed skills necessary to complete large software tasks with a team. Learned the basics of the Agile software development method. Used version control tools such as Subversion to complete a collaborative team project. Wrote non automated black box test cases as well as automated unit tests using JUnit and HTTPUnit. Gained exposure to writing and testing MySQL queries integrated into .jsp pages.

CSC 492: Senior Design Project

Capstone course which utilized knowledge from all computer science curricula. Worked with a team to complete an asset management tracking software suite for corporate sponsor. Completed assignment by implementing a Silverlight application using a Microsoft SQL Server database with the C# programming language. Effectively communicated with team and with corporate sponsor. Used version control software and Agile software development methodology. Wrote a suite of black box test cases that ensured testing coverage of our project. Quickly learned new technologies and implemented them to deliver project on time.

Post Baccalaureate Studies

Human Computer Interaction (NCSU, 2012)

Explored topics relevant to interactive design, usability, and human factors regarding computer interfaces. Developed multiple user interfaces as a result of homework and projects in the course using knowledge of design best practices. Completed final project is a proof-of-concept mobile design for an extension of a smart thermostat, traditionally found inside the home, into the mobile space.

Activities

Upsilon Pi Epsilon (President), Phi Beta Kappa (Member), Association of Computing Machinery (Student Member), Society for Industrial and Applied Mathematics (Student Member), University Honors Program, Computer Science Honors Program, Dean's List, Science Olympiad (North Carolina State Champion Team, attended National Competition)