PRACHI SHAH

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OBJECTIVE

Full Stack Software Engineer

EDUCATION

Indiana University, Bloomington, IN, USA   August 2013 - May 2015
Masters of Science, Computer Science

University of Mumbai, Mumbai, MH, India   September 2007 - May 2010
Bachelors of Engineering, Information Technology

Maharashtra State Board of Technical Education, Mumbai, MH, India   September 2004 - May 2007
Diploma, Computer Engineering

TECHNICAL SKILLS

Programming: Java, C#
Database: Oracle, MySQL, Sybase
Web: J2EE, JavaScript, jQuery, MVC, LAMP, ASP.NET, Hadoop, PHP, JUnit, HTML, CSS, AJAX, XML, Bootstrap, WAMP
IDE: IntelliJ IDEA, Eclipse, Sublime Text, MS Visual Studio, Cascade Server
VCS: Git, Team Foundation Server
OS   Linux, MS Windows, Mac OS
Miscellaneous: Web services, Firebug, YSlow, Fortify, Selenium

PROFESSIONAL EXPERIENCE

Indiana University, Bloomington, IN, USA   May 2014 - May 2015
Systems Analyst/ Application Programmer
• Designed, developed and tested the website for Indiana University Procurement Services, using *LAMP*, *JavaScript*, *HTML*, *CSS* and *XML*
• Debugged and optimized existing *SQL* scripts that updated procurement information stored on the *Oracle* databases

Bank of America - Merrill Lynch, Mumbai, MH, India   October 2010 - August 2012
Sr. Technical Associate
• Developed a web application using *ASP.NET MVC*, *REST*, *Sybase*, *jQuery* and *AJAX* that provided centralized access to customer data
• Collaborated with business and developed a web application using ASP.NET, jQuery and Sybase for secure enterprise technology publishing
• Identified, rectified and documented vulnerabilities in legacy JavaScript and *ASP* applications, which increased security and robustness
• Migrated legacy ASP web applications using ASP.NET, *LINQ*, HTML and Sybase, which improved the performance by 80%
• Performed *Fortify* static application security testing on vulnerable applications, optimized XML test report generation time by 70%
• Followed *Model-view-controller* (MVC) pattern and worked on the complete *Agile Software Development Lifecycle* (SDLC)
• Certified with The Ken Blanchard Companies' 'Situational Leadership II'
• Received several Bank of America Global Recognition awards for performance, teamwork and ownership

Tata Consultancy Services, Mumbai, MH, India   September 2009 - April 2010
Software Engineering Intern
• Developed a global strategy management system for enterprise human resource operations using Java, *J2EE* and Oracle
• Implemented the business logic using *PL/SQL*, developed the user interface using *JavaServer Faces*
• Followed *Test Driven Development* (TDD), developed and implemented Unit test cases, documented the project and test results

PROJECTS

Web programming and database development
• Developed a university employee management web application and the underlying database using *WAMP*, jQuery, HTML and CSS
• Created, modeled and queried an RDF database to display subject-object-predicate results using *ARQ SPARQL* processor for *Jena*, and Java
• Serialized *JSON* wine facts' data into *RDF* format and displayed them on a web page, using *MIT Simile's Exhibit*, JavaScript and *Bootstrap*
High performance computing
• Developed word count and PageRank Algorithm programs for *Hadoop* and *Pig*, using *MapReduce* and Java
• Implemented round robin message passing algorithm on a Linux cluster using *OpenMPI* and C
Computer networks
• Implemented a TCP/IP port scanner which identified open/closed ports using different scanning techniques, in *C++*
• Developed a 1-seeder 1-leecher BitTorrent client for secure file transfer, in *C*
• Implemented a form of netcat command for secure TCP socket communication between two clients, in *C*
Mobile computing
• Developed an *Android* application that tracked a bike (any object) and provided real-time location updates, using Java
• Detected Android applications prone to Secure Socket Layer protocol vulnerabilities using *mitmproxy* (Man-in-the-middle), and Java
Hardware
• Programmed *Phidget 1018 Analog sensor* and created a Morse code encoder which converted pressure inputs into text messages, using Java