

BHAVESH SANGHVI

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SUMMARY

- 12 years of work experience in software design & development (includes 2 years of internships and assistantships)
- Master of Science in Computer Science with thesis in Semantic Web (Artificial Intelligence)
- Professional experience of working on both Java/J2EE and .NET technologies
- Proven ability to build and mentor teams from ground-up and work on diverse fields at the same time

WORK EXPERIENCE

Amazon, USA **Software Development Engineer II** **Mar 2012 – present**

- Leading the design and development of next generation software to improve the quality of defining and maintaining item relationships as well as ensuring they remain consistent over time
- Led the development of next generation of listing new products on Amazon by automatically identifying a product globally without a need or external identifier and minimizing the number of attributes to be provided
- Led development of a new service from ground-up and a brand new GUI for sellers to manage promotions on their products
- Mentored two new teams while defining most of the development processes and standards for both the teams
- Made improvements to the Offer Listing Page at Amazon.com and other regional websites

Microsoft, USA **Software Development Engineer** **Jun 2009 – Mar 2012**

- Developed solutions for Enterprise Search (releases with multiple SKUs including SharePoint Server, FAST Search Server, and for Office365) owning Federation, OpenSearch, and Result Summaries
- Implemented Enterprise Search and developed solutions for providing High Availability and Disaster Recovery in SharePoint Online (Office365)
- Enhanced Microsoft Office 2010 Filter Pack; by fixing bugs and improving crawl performance of various document formats including Word, Excel, PowerPoint, HTML, XML, ZIP, Text, etc.

GlobalLogic, India **Senior Software Engineer** **Feb 2006 – Jul 2007**

- Designed and developed a stand-alone server for BroadSoft, Gaithersburg MD
- Designed and developed new server side features for Zones, Seattle WA

Quark Media House, India **Software Engineer** **Jun 2004 – Feb 2006**

- Involved in development of four releases for Quark Workflow Engine (QWE)
- Managed the development of a release leading a team of four as a Module Lead
- Localization Head for product localization and Team Coordinator for UI development

INTERNSHIPS

Cleartsighted, Ames IA **Summer Intern** **May 2008 – Aug 2008**

- Cognitive modeling for Intelligent Tutoring Systems using Carnegie Learning Cognitive Tutor
- Developed an extensible problem-specific tutoring system (<http://code.google.com/p/xpst/>)

Google (Summer of Code 2008) **Student Developer (Contract Worker)** **May 2008 – Aug 2008**

- Worked on open source OpenBiomind project for Singularity Institute for Artificial Intelligence (SIAI)
- Designed and developed OpenBiomind-GUI (<http://code.google.com/p/openbiomind-gui/>)

ASSISTANTSHIPS

Iowa State University **Research Assistant** **Aug 2008 – May 2009**

- Assisted in enhancing a web-based learning management system (ProblemSpace)

Iowa State University **Teaching Assistant** **Sep 2007 – May 2008**

- Assisted in grading homework for a course in Computer Literacy and Applications

Iowa State University **Research Assistant** **Sep 2007 – Dec 2007**

- Assisted in research work in Bioinformatics

VOLUNTARY WORK

- **Robotics/AI Advisory Board Member**, Lifeboat Foundation [invited position] (Oct 2010 – present)
- **Secretary**, Graduate Advisory Committee, Dept. of Comp. Sc., Iowa State Univ. (Jun 2008 – Apr 2009)
- **Judge**, Junior High Division, State Science & Technology Fair of Iowa 2008

EDUCATION

M.S. Computer Science **Iowa State University, Ames IA** **GPA: 3.71/4** **May 2010**

- **Identifying and Eliminating Inconsistencies in Mappings across Hierarchical Ontologies:** Modeled the problem as a graph problem, showed it to be NP-Hard, and proposed heuristic algorithm working under Prof. Vasant Honavar (major thesis: <http://gradworks.umi.com/14/76/1476345.html>)
- **Scalable Constant Time Reasoner:** Demonstrated an approach to build efficient and scalable Description Logic reasoner that can run in near constant time (fall 2007)

B.E. Computer Engineering **Devi Ahilya Vishwavidyalaya, Indore, India** **79.0 %** **May 2004**

- **Query-based Expert System Tool:** Developed an Eclipse plug-in that uses natural language processing to generate question-answering based expert systems (major project)
- **Optical Character Recognition:** Developed an interpolation-based pattern matching algorithm (fall 2002)
- Winner of all the programming contests organized in the college (IET Indore) during 2001-2004
- Represented college in ACM Asia Programming Contest, IIT Bombay, 2003 (achieved 18th position among 126 teams)

PUBLICATIONS

- **Sanghvi, B.**, Koul, N., and Honavar, V. (2010). Identifying and Eliminating Inconsistencies in Mappings across Hierarchical Ontologies. In: Springer-Verlag Lecture Notes in Computer Science Vol. 6427, pp. 999-1008. Berlin: Springer
- Blessing, S. B., Gilbert, S. B., Blankenship, L. A., and **Sanghvi, B.** (2009). From SDK to xPST: A new way to overlay a tutor on existing software. In: Proceedings of the Twenty-second International FLAIRS Conference, pp. 466-467, Sanibel Island, FL. AAAI Press.

PROFESSIONAL SKILLS

Languages	Java, C, C++, C#, PowerShell, SQL, HTML, XML
Technologies	Java/J2EE, .NET, Eclipse RCP, Swing, JDBC, EJB, JSP, Servlets
Design & Processes	OOAD, Agile, SCRUM, Extreme Programming, Design Patterns, UML
DBMS	Microsoft SQL Server, MySQL, Oracle
Tools	SharePoint, JUnit, JMock, Mockito, Apache Tomcat, JIRA

HONORS & AWARDS

- Invited to join Robotics/AI Advisory Board of Lifeboat Foundation
- Received QuarkPro award (Top Individual Performer) at Quark, India for best quarterly performance
- Received Spot Appreciation award (Zones) and an Appreciation Certificate at GlobalLogic, India
- Among top 250 programmers in Google Code JAM India 2006
- Won Inter College Programming Contest (IET Indore, 2004)
- Achieved 2nd position in C-Online Programming Contest (SVNIT Surat, 2004)
- Won Programming Contest (IET Indore, 2002-03)
- Achieved 18th position among 126 teams in ACM Asia Programming Contest (IIT Bombay, 2003)
- Won Programming Contest (IET Indore, 2001-02)
- Achieved 5th position in IEEE C/C++ Programming Contest (SGSITS Indore, 2001)