

Venkatesh Vinayakarao

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Objective

Deep study and research on the broad areas of Big Data, Information Retrieval and Search Technologies.

Educational Qualification

PhD (Computer Science) [Sep 2013 – Till Date]

University: IIIT Delhi, New Delhi, India.

Specialization: Information Retrieval – Query Processing (Text Search).

M.S (Information Technology) [GPA 4.1/5 (July 2002- Dec 2003)]

University : Carnegie Mellon University, USA.

Specialization : Software Engineering.

B.E (Computer Science and Engineering) [78.6% (Sep 1996 – Jun 2000)]

University : Madras University.

College : Bharath Institute of Science and Technology, Chennai.

Work Experience [11 Years 10 Months as on Sep 2013]

Duration	Organization	Designation	Job Description
1 Year, 3 Month 25 th Jun 2012 – 27 th Sep 2013	Microsoft	Senior SDE	Content Processing & Ranking for Microsoft's Bing (search engine) team at the Search Technologies Center – India. Role: I am responsible for contributing as a Machine Learning Developer for the ranking (Relevance) team. This work involves preparing training sets, understanding content, feature extractions, tuning rankers and measuring their performance.
[2 Years, 3 Months] 29 th Mar 2010 - 18 th June 2012	Yahoo!	Principal Engineer	Content processing yahoo! Yahoo aggregates several million feeds from several thousand providers across more than 40 countries. Role: As a content processing yahoo, I am responsible for understanding the grid based platforms and build solutions on top of them so that the raw content is processed and made available to front-end groups. Involves understanding/building platforms and writing enrichment workflows using Pig, Java and J2EE technologies.
[2 Year, 7	Nokia	Senior R&D Engineer	To own and engineer tools for the personalization of Nokia phones. To

<p>Months]</p> <p>16th Aug 2007 – 27th Mar 2010</p>			<p>work closely with the SDK (S60, Series40) team and provide appropriate tooling support using eclipse (RCP) framework.</p> <p>Role: Hands-on Development using Core Java, Eclipse Plugins/RCP and XML. Act as Scrum-master. Responsible for build setup (ant, cruise control) and fixes.</p>
<p>[1 Year]</p> <p>14th Jul 2006 – 10th Aug 2007</p>	CoreObjects	Principal Product Engineer	<p>To build and maintain robust License Management product under demanding schedules for an aggressive market. Used Java/J2EE.</p> <p>Role: Project lead – Take part in Customer discussions, design discussions, plan, review and release management. Appraisals and people management. Bug fixing and hands-on development as and when required.</p>
<p>[1 Year, 9 Months]</p> <p>04th Oct 2004 – 28th Jun 2006</p>	HCL Technologies [CMM Level 5]	Senior Technical Management Trainee	<p>To communicate with customers and lead the software development teams at the Core Technologies Division of HCL. Used Java, InfoPath along with some technical writing for GM.</p> <p>Role: Understand requirements, develop throw away prototypes using Java, InfoPath, and write requirement specifications.</p>
<p>[1 Year]</p> <p>15th Aug 2003 – 31st Aug 2004</p>	Carnegie Mellon University	Research Scholar	<p>Development of high performance conferencing module with major emphasis on customer interaction, requirements management and software architecture. Used Core Java and SIP.</p> <p>Role: End-to-end development.</p>
<p>[2 Years]</p> <p>3rd Jul 2000 – 21st Jun 2002</p>	Silverline Technologies [CMM Level 4]	Software Engineer	<p>Several short-term projects (ranging from 3 months to 1 year long) in Java/J2EE for different domains and customers. Major responsibilities include implementation, reviewing specifications, suggesting new tools and procedures and facilitating all life cycle phases.</p> <p>Role: Major responsibilities include implementation, reviewing specifications, suggesting new tools and procedures and facilitating all life cycle phases.</p>

Publications

1. Venkatesh Vinayakarao, Tharanian Mahendran, Ram Narayan Seshadri, Sathviha RaviArunan, Neha Jain, "Strengthening the Requirements Phase using the TAID (Tool Assisted Inconsistency Detection) approach", IADIS 2006.
2. Venkatesh Vinayakarao, "Completeness in Requirements", Requireonautics Quarterly, British Computer Society, March 2005.
3. Venkatesh Vinayakarao, "Creative Hitlers to Effective Leaders", Trisha, SSN SASE, August 2005.
4. Venkatesh Vinayakarao, Deepesh Hinduja "Testing Framework: Bugging the bugs", Technical Report, CMU-West, December 2003.

Achievements

1. **Defensive publication** on "Active Passwords" for Yahoo!
2. '**Best Technical Knowledge and Best Commitment to Work**' from Carnegie Mellon.
3. Contributed as a regular **visiting faculty** at SSN School of Software Engineering, Chennai, India.
4. Worked as an **instructor** for BITS Pilani, **MS program** while working at HCL Technologies, India.
5. '**Best Technical Paper**' on Testing Frameworks from Carnegie Mellon University.
6. **World topper** (Brainbench) in ASP (in the year 2001).
7. **All India III Rank** in Semester II of Higher Diploma in Communication and Network Management from Asset Intl.
8. Gave a **talk at CII** (Committee for Information Interchange at Carnegie Mellon) Open House on JavaServer Pages
9. Scored **800/800** in Quantitative Aptitude Section of GRE.
10. **School Topper** in Higher Secondary.

Additional Qualification

- C.S.M** : Certified Scrum Master
C.N.A : Certified Novell Administrator in Novell Intranetware 4.11
H.D.C.N.M : Higher Diploma in Communication and Network Management
(From Asset Intl., Chennai)

Teaching Experience

1. Models of software systems: Lecturer, SSN School of Advanced Software Engineering [2005-2006].
2. Software Architectures: Faculty/Supervisor, BITS Pilani/HCL Technologies [2004 – 2005].
3. Visiting Faculty, SSN School of Advanced Software Engineering [2006 – Till Date].

Technical Skills

Category	Technology/Tools
Requirements Management	Use Cases with Rational Requisite-Pro, Story Cards
Configuration Management	Version Control and Release Management with SVN, VSS and CVS, Rational Team Concert / Jazz
Architecture / Design	UML with Rational Rose, ArgoUML
Implementation	
Web	HTML, JavaScript, CSS, JSP, Servlets and ASP
Stand-Alone	Java, Eclipse Plugins, RCP, Visual Basic
Database	SQL using SQL Server, MySQL and Erwin DB Modeller
Networking	SIP, TCP/IP, JXTA
Reports	Seagate Crystal Reports, Jasper Reports
Testing	RFT, JUnit and Cactus
Performance Management	JProfiler, Rational Purify, JProbe
Build and Release Management	Eclipse PDE Releng, Ant, LuntBuild, CruiseControl, Hudson, Maven

Process / Quality Assurance	Agile (Scrum), RUP, UML Components, SEI-CMM. Software metrics gathering using jMetra
Operating Systems	Hands-on experience working with RHEL 4/5, Ubuntu, Mac OS X – Snow Leopard, Windows.

Software Development Experience Summary

SNo.	Project	Domain	Duration (months)	Team Size	Client
1.	Ranking & Relevance	Search (Bing)	15	7	Microsoft, India.
2.	Content Processing	Hadoop – Distributed Processing	26 (till now)	8	Yahoo, India.
3.	Carbide.ui	Mobile Phones	31	7	Nokia, India.
4.	License Management	License Management	10	7	PSI, USA.
5.	ConSeal	Requirements Engineering	10	7	SSN SASE, India.
6.	HIREF	Requirements Engineering	11	4	General Motors, USA.
7.	X over IP	Networking	2	3	CMU, USA.
8.	Epidemic Think Ahead	Medical	2	5	CMU, USA.
9.	IRIS	Software Engineering	11	7	SSN SASE, Chennai.
10.	Toll Collection Sys.	Road Transport	9	5	TNRDC, Chennai.
11.	Diamond Dimension	Jewelry	3	5	DD, Hong Kong.
12.	HangFung	Jewelry	6	25	HF, Hong Kong.
13.	HIHO	Water sport	1	8	HIHO, USA.