

## RAHUL JAYARAMAN

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### EDUCATION

Masters in Computer Science May 2010  
Virginia Polytechnic Institute and State University, USA

Bachelors in Computer Science and Engineering Jun 2006  
Anna University, India

### TECHNICAL SKILLS

- **Languages & Scripting** Java, Groovy, Bash, JavaScript, PHP
- **Design Paradigms** OOD, Event-driven Architecture
- **Java/JEE Technologies** JDBC, JMS, JSP, Tomcat
- **Frameworks** Spring, Struts, Hibernate, Ehcache, JUnit, GWT, Selenium
- **Tools and IDE** Eclipse, JTest, JConsole, JMeter, Visual Studio, Rational Rose
- **Databases** Oracle, PostgreSQL, MySQL
- **Fault tolerance & High availability** Linux HA, Heartbeat, Pacemaker, DRBD
- **Operating Systems** Linux, Windows
- **Source control** Subversion, Microsoft Visual Source Safe
- **Build management** Maven, CruiseControl, Bamboo
- **Development methodologies** Agile (Scrum), Waterfall, Test-driven Development

### EXPERIENCE

#### Cisco Systems

Software Engineer Jun 2010 - Present  
Platform and Architecture Team, Digital Media Systems

- Currently working on adding NFS support to extend the local storage available in Digital Media Systems.
- Led the development of fault tolerance and high availability feature for Cisco's Digital Media Suite.
- Led the design and implementation of new media analytics device as part of integration with analytics engine.
- Led the effort to improve Certificate Management with several key new features like support for new certificate formats, notification on certificate expiry etc.
- Enhanced inventory service to support multiple interfaces for a device.
- Improved scalability of event management system in digital media suite and resolved long-standing issues in it. Awarded Cisco Achievement award in appreciation of the effort.
- Worked with customers and beta testers to resolve functional and performance defects.
- Championed continuous integration and test automation of the system to identify build failures and functional issues early on.
- Mentored intern in developing an automation test framework to test Platform services.

Software Engineer Intern  
Solution Test Team, Telepresence Exchange Business Unit

May 2009 – Aug 2009

- Led the design and development of test automation framework to do end-to-end test of a Telepresence system.
- Designed and developed an automated log collection tool to collection logs from all the system components.
- Identified critical issues in the system by doing automated and manual tests and worked closely with the development team to resolve these issues.

### **Virginia Polytechnic Institute and State University**

Graduate Research Assistant  
Network Dynamics and Simulation Science Laboratory

Aug 2008 – May 2010

- Developed a middle ware system to run epidemic simulation experiments effectively on a cluster and to analyze the results of the experiment.
- Led the design and development effort to integrate EpiSimdemics simulation system with the middle ware system to run experiments.
- Transitioned the persistence layer of the system to use Hibernate persistence framework.

### **Infosys Technologies**

Software Engineer  
Automotive and Aeronautics Unit

Jun 2006 – Jul 2008

- Developed a custom AJAX framework to improve usability in a reporting web application.
- Designed and developed a reports comparison module as part of a report and forecast sales application for Toyota Motors. Awarded Infosys Certificate of Achievement in recognition of performance in the project.
- Involved in the development of several key features as part of development of inventory management system for General Motors.
- Championed Quality initiatives by running and analyzing quality metrics report and educating the team on ways to improve it.

### **PUBLICATIONS**

- Jayaraman, R.K.N., Chung, H., Yang, S., Massjouni, N., Andrews, C. and North, C. "VizCept: Supporting Synchronous Collaboration for Constructing Visualizations in Intelligence Analysis." The IEEE Conference on Visual Analytics Science and Technology (IEEE VAST'10), Oct, 2010.
- Jayaraman, R.K.N., Buffardi, K., Churbanau, D. & Edwards, S.H. "CoPractice: An Adaptive and Versatile Practice Tool." American Society of Engineering Education, Southeastern. April, 2010.
- Jayaraman, R.K.N., Buffardi, K., Churbanau, D. & Edwards, S.H. "Practice Makes Perfect with CoPractice." Poster at ACM Technical Symposium on Computer Science Education. March, 2010.