

# Karthik Rajagopal

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## Objective

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*To obtain full-time position as a Software Engineer, **available immediately.***

## Profile

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- ♦ Computer Science graduate student with **1.5 years of experience a Software Engineer.**
- ♦ Strong OOA/OOD and OOP skills using Java/C++ and C#.NET along with design patterns.
- ♦ **1 year** experience in building web applications using **Java/J2EE** and **6 months** experience in **C++**.
- ♦ Possess strong knowledge about advanced data structures and algorithms.

## Education

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- ♦ Rochester Institute of Technology, Rochester, New York **GPA:3.74/4.0**  
**Masters in Computer Science** (Major in Distributed Systems) August 2007-Feb 2010(expected)  
**Courses:** Advanced Programming (Java), Aspect Oriented Programming (AspectJ), Design Patterns and C#.NET, Analysis of Algorithms, Database Systems, Data Comm. and Networks, Advanced Computer Networks, Wireless Sensor Networks, Cryptography, Distributed Systems.
- ♦ Guru Gobind Singh Indraprastha University, New Delhi, India **GPA: 72%**  
Bachelor of Technology (B.Tech) in Computer Science June 2002-May 2006

## Skills Summary

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- ♦ **Languages** : Java , C , C++ , C#.NET , AspectJ , SQL
- ♦ **Technologies** : Struts, Spring, JSP, Hibernate, JDBC, Apache Tomcat, JBoss, JUnits, Silverlight
- ♦ **Tools** : Eclipse, Microsoft Visual Studio, gdb, CVS/SVN, AndroMDA
- ♦ **Databases** : MySQL, MS SQL Server 2005, Oracle 9i, Hypersonic 2
- ♦ **O/S** : Windows, Linux, Unix (Sun Solaris), MacOS
- ♦ **Network** : TCP/IP stack and protocols

## Industry Experience

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- ♦ **CA Inc (Computer Associates Inc), New Hampshire, USA** March 2008-August 2008  
**Software Developer Intern**
  - Developed new features for upcoming release of CA SPECTRUM.
  - Designed and developed parsers using C++ and Perl Regex to fetch firmware version from network devices which resulted in shorter turnaround times during device upgrades.
  - Wrote code in C++ to detect reboot events used for root cause analysis and correlation.
  - Wrote Shell and Batch scripts which helped in automation of various tasks.
  - Isolated, debugged and fixed many issues reported by QA and customers.**Languages:** C++, Java, J2EE, Shell scripting, Crystal Reports
- ♦ **Sapient Corporation, India** July 2006 – August 2007  
**Associate Technology (Full-Time)**
  - Designed and developed **J2EE** based intranet application for a large money transfer client to manage workflow activities of pending/queued transactions.
  - Worked on design and development of unified/extensible framework from scratch.
  - Backend module leader and core member of the code review team.
  - Modified open source Struts code and wrote customized Request Processor.
  - Mentored team members in acquiring business processes and technical skills.**Languages:** Java, J2EE, JSP, JSTL, Struts, Spring, Hibernate, AndroMDA

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## Other Experience

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- ◆ **Grader for Advanced Programming (Java), RIT** December 2008- November 2009  
Responsible for grading homework and lab assignments under Dr. Minseok Kwon. Provided constructive feedback to students for better design and thought process.
- ◆ **Grader for Design Patterns and C#.NET (grad level), RIT** August 2009- Novemeber 2009  
Graded homeworks and provided feedback to students under Dr Axel T Schreiner.

## Projects

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- ◆ **Masters Project:** Co-clustering document and words in structured P2P networks: Currently developing and researching entirely new approach to cluster documents and words with the help of Distributed Hash Tables and Lookup Trees.
- ◆ Implemented a research paper for improving lookup efficiency of Distributed Hash Tables by utilizing relative neighbor proximity
- ◆ Developed distributed Air Traffic Control System using Java RMI and Tuple Spaces.
- ◆ Implemented Pair Wise Pre Key Distributed scheme for SunSPOTS, a wireless sensor device developed by Sun Microsystems.
- ◆ Developed distributed memory game using asynchronous web service using C#.NET and Silverlight.
- ◆ Designed and developed multi threaded and cross platform file sharing system using C++ and Qt 4.0
- ◆ Developed Serverless neighbor discovery supporting Apple Bonjour using Java.
- ◆ Simulated TCP/UDP protocol based connections between client and server using C++.

## Achievements/Activies

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- ◆ Awarded graduate scholarship at RIT for maintaining high academic standards.
- ◆ Awarded best team player numerous times at Sapient Corp during global team meetings.
- ◆ Among few thousands of students in India who cleared IIT-JEE (Indian Institute of Technology-Joint Entrance Exam) screening where more than half a million competed for less than 3000 seats.
- ◆ Qualified Google Code Jam 2008.