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# ARUNDHATI KOGEKAR

**OBJECTIVE**

To acquire challenging and rewarding work experience as a software developer and researcher.

**EDUCATION**

| August 2005 – Present | Master of Computer Science | Vanderbilt University, Nashville, Tennessee |
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- G. P. A: 4.0 / 4.0
- Expected date of graduation: May 2007

| July 2001 – June 2005 | Bachelor of Computer Engineering | University of Pune, Pune, India |
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- Grade: First Class with Distinction
- Class Rank: In the top 10%

**SOFTWARE SKILLS**

**Languages**
C++, Java, C, Microsoft Visual Basic, Structured Query Language (SQL), HTML, XML, UML, PERL, ASP, COBOL, Assembly Language (8085, 8086), VHDL

**Software Tools and Technologies**
JBuilder, Eclipse, Visual Studio.Net, Generic Modeling Environment (GME), OMNeT++ and NS-2 Simulators, ACE/TAO/CIAO CORBA-based Middleware, Rational Rose, Visio, Microsoft Office, CVS, Subversion

**Operating Systems**
Microsoft Windows, Linux and MS-DOS.

**Databases**
Microsoft Access 2000, Oracle 8.0

**PUBLICATIONS**

1. Arundhati Kogekar, Aniruddha Gokhale, "Performance Evaluation of the Reactor Pattern Using the OMNeT++ Simulator", *in Proceedings of the 44th ACM Southeast Conference, March 2006, Melbourne, FL.*
2. Arundhati Kogekar, Dimple Kaul, Aniruddha Gokhale *et al*, "Model-Driven Generative Techniques for Scalable Performability Analysis of Distributed Systems", *in Proceedings of the Next Generation Software (NGS) Workshop at the IEEE International Parallel and Distributed Processing Symposium, April 2006, Isle of Rhodes, Greece.*
3. Dimple Kaul, Arundhati Kogekar, Aniruddha Gokhale, Jeff Gray and Swapna Gokhale, "POSAML: A Visual Modeling Framework for Middleware Provisioning" *in Proceedings of the Hawaii International Conference on System Sciences, January 2007, Hawaii.*

**EXPERIENCE**

**May 2006 – August 2006: Summer Intern at eBay, Inc.**
Developed a performance analysis tool which calculated the aggregated Quality of Service offered by the eBay website. This tool makes it easier for Load and Performance engineers at eBay to analyze the performance of each new build before introducing it to the website. The tool was developed using PERL, ASP, XML and XSL.

**August 2005 – Present: Graduate Research Assistant**
Presently working with the Distributed Object Computing (DOC) research group at the Institute of Software Integrated Systems (ISIS), Vanderbilt University.

**Area of Research**
Object-oriented and distributed systems, model-driven development, simulation and performance analysis

**GRADUATE RESEARCH PROJECTS**

**Model Driven Development & Generative Programming**
Co-architected a visual modeling language called POSAML using the Generic Modeling Environment (GME) tool to model pattern-based composite middleware systems as well as middleware features and benchmarking characteristics. Designed the POSAML generative tools to synthesize benchmarking metadata data in XML format. Currently enhancing the modeling paradigm to cover more middleware patterns.

**Performance Analysis of Distributed Systems**
Developed a simulation model of the Reactor event demultiplexing pattern using the OMNeT++ simulator and analyzed its performance characteristics. Currently working on enhancing this simulation model to cover other middleware patterns for performance and dependability analysis, as well as integrating the simulation model with POSAML.

**FINAL YEAR UNDERGRADUATE PROJECT**

**Development of Code Review Plug-in for J-Builder IDE**
Co-developed JCoRe - a code review plug-in integrated with the JBuilder IDE to facilitate the manual code review process. This team project was sponsored by KPIT-Cummins Infosystems, a multi-national information technology firm based in Pune, India. The project was implemented using Java, XML, Swing and the JBuilder OpenTools Interface.

**CO-CURRICULAR ACTIVITIES**

1. Student Volunteer at the International Conference on Object-Oriented Programming Systems, Languages and Applications (OOPSLA), October 2006, Portland.
2. Attended the Workshop for Women Graduate Students organized by the Computer Research Association's Committee on the Status of Women in Computing Research (CRA-W), March 2006, San Francisco.
3. Vice-President of the Vanderbilt India Association, 2006 - 2007.

**HONORS AND AWARDS**

1. Ranked 15th in the Merit List for the Higher Secondary Certificate (HSC) Exam in March 2001 out of more than 100,000 students appearing for the examination that year.
2. Was one of the 750 students who were awarded the National Talent Search (NTS) Scholarship in June 1999 by the Government of India out of more than 25,000 students.
3. Was awarded the Pedagogischer Austauschdienst (PAD) Scholarship for excellence in German by the Federal Government of Germany in June 1999. The scholarship included a month-long tour of Germany.
4. Was awarded the Maharashtra Talent Search (MTS) Scholarship in 1998 by the state Government of Maharashtra, India.

**LANGUAGES**

Fluent in English, German, Hindi and Marathi

**OTHER INTERESTS**

Played soccer for college in the second year of engineering. Other hobbies include learning German, reading, cycling, and listening to music.

**REFERENCES**

Available upon request