

Deepthi Devaki Akkoorath

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Objective

To carry out independent research in the field of Computer Science in collaboration with leading research groups, which would encourage maximum utilization of my skills and resources, ultimately contributing to the individual and organizational success.

Projects

Nov '11-July '12	Optimizing Placement of Internet Application Components on Distributed Clouds
Organization	TNO, Netherlands (www.tno.nl)
Description	An individual project carried out at TNO. The project contributed with a new model to optimize the placement of application components which improves the Quality of Experience of Internet Applications.
Tools	The work was done as part of master thesis and is published in http://goo.gl/9qkMt Ruby, OpenNebula, Linux traffic controller(tc)
July '11-Aug '11	Authentication using SURF-federated login for grid access.
Organization	NIKHEF (www.nikhef.nl)
Platform	PHP,cURL,simpleSAMLPHP
Description	Summer internship. The project involved adding different authentication mechanisms to a portal interface that we have built for grid access. The portal uses a robot certificate to allow users to run pre-configuration applications on the grid. A single sign-on system using SimpleSAMLPHP was also developed.
Feb 09 - July 09	Design and implementation of a PowerPC assembler to ALF translator in cooperation with world-leading WCET tool providers
Platform	C++
Description	Final year bachelor thesis. The thesis resulted in making semantic interpretation of CRL2 PowerPC assembler code constructs in terms of ALF code and data structures used for Worst Case Execution Time analysis of programs and built a system to extract information from the CRL2 PowerPC code representation and convert it to ALF.
Oct 07 - Jan 08	University Admissions System
Platform	J2EE, Windows, DB2, Rational Software Architect, Websphere
Description	Basic objectives of the UAS are to extend the reach of a university to geographically scattered applicants, reducing time in activities, centralized data handling and paperless admission with reduced manpower. Cost cutting, operational efficiency, consist view of data and integration with other institutions are other factors.
Roles & Responsibilities	Requirements gathering,Analysis and design of the system, Setting of development environment on Windows, Implementation of Struts Framework,GUI development using tiles, Implementation of Webservices

Education

2010–2012	MSc in Computer Science(Grid Computing), University of Amsterdam, The Netherlands. CGPA: 8.0/10 Master thesis: Optimizing Placement of Internet Application Components on Distributed Clouds
2005–2009	B.Tech in Computer Science and Engineering, Amrita Vishwa Vidyapeetham, Amritapuri , India. CGPA: 9.45/10

Occupation

Feb'13 - current	Software Engineer at Multicoreware.Inc, Chennai, India Responsibility - Developing a high performance video encoder for HEVC standard
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Technical Skills

Languages	C, C++, Java
Scripting	Ruby, Python
Operating Systems	Linux, Windows
Web	J2EE, PHP
Other	SQL, MPI, OpenMP

Areas of Interest

- Distributed Systems, Algorithms and Data structures
- Parallel Programming

Achievements

- HSP Huygens Scholarship recipient for the year 2010-2012. It is a fully funded scholarship for Master studies in Netherlands.
- EURECA, Erasmus Mundus Scholarship recipient for a 6 month student exchange program in Malardalen University, Sweden for the year 2009.
- Winner in The Great Mind Challenge contest 2007 conducted by IBM.
- Ranked 34th in ACM ICPC 2007 Asia regional.
- Significant contributor award in the Sun Microsystems Code For freedom.

Personal Details

Date of birth	10-May-1988
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