

CONTACT INFORMATION	PACE Lab Department of Computer Science & Engineering Indian Institute of Technology Madras, Chennai - 600036, India	Phone: +91 8939721417 E-mail: raghesh@cse.iitm.ac.in
RESEARCH INTERESTS	Compiler optimizations, Verification of parallel programs	
EDUCATION	<ul style="list-style-type: none"> • Doctor of Philosophy (Ongoing) Aug 2012 - current <ul style="list-style-type: none"> • Institution: Indian Institute of Technology - Madras, Chennai, India. • Advisor: Dr. V. Krishna Nandivada • Master of Technology in Computer Science & Engg. Apr 2011 <ul style="list-style-type: none"> • Institution: Indian Institute of Technology - Madras, Chennai, India. • Advisor: Dr. Shankar Balachandran • CGPA: 8.67 • Bachelor of Technology in Information Technology. Jun 2005 <ul style="list-style-type: none"> • Institution: MES College of Engineering, University of Calicut, India. • Percentage: 74. 	
EXPERIENCE	<ul style="list-style-type: none"> • Lecturer Feb 2007 – Jul 2012 Department of Information Technology (On study leave From Aug 2009 – Apr 2011) MES College of Engineering, Kerala, India. • Software Engineer Aug 2005 – Jan 2007 Aricent Communications, Chennai, India 	
PROJECTS	<ul style="list-style-type: none"> • Polly: Polyhedral optimizations for LLVM Worked in this project during M.Tech. Details can be found at http://polly.llvm.org/ • Google Summer of Code Participant of Google Summer of Code 2011. Details can be found at http://polly.llvm.org/documentation/memaccess.html • Installer for GNU Hurd Details can be found at http://gnu.ethz.ch/hurd/pgm.txt 	
PUBLICATIONS	<ul style="list-style-type: none"> • Polly - Polyhedral Optimization in LLVM Tobias Grosser, Hongbin Zheng, Raghesh Aloor, Andreas Simbrger, Armin Grlinger, Louis- Nol Pouchet. IMPACT at CGO 2011. http://polly.llvm.org/publications/raghesh-a-masters-thesis.pdf • A Framework for Automatic OpenMP Code Generation Raghesh A. Masters Report (May 2011). http://polly.llvm.org/publications/grosser-impact-2011.pdf 	
CURRENT RESEARCH	<ul style="list-style-type: none"> • Verification of parallel programs, specific to OpenMP Currently working on a project which ensures consistent behavior when OpenMP barriers are placed inside work-sharing constructs like parallel-for. 	
SKILLS SUMMARY	<ul style="list-style-type: none"> • Operating System: GNU/Linux • Programming Languages: C, C++, Python, Shell, java • Tools: gdb, jtb and javacc, ROSE compiler framework, Eclipse, LLVM, git, svn. • Others: Exposure to Linux kernel internals and ext2 filesystem. 	
HOBBIES	<ul style="list-style-type: none"> • Playing Carnatic Flute. 	