

HARSH VARDHAN

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EDUCATION

Texas A&M University, College Station, TX.

Doctor of Philosophy in Computer Engineering –Computer Science (Jan 2009 – Dec 2113)

- Areas of Research: **Parallel/Distributed Systems, Algorithms, Graph Theory**
- Work Authorization: Eligible for Practical Training.

Texas A&M University, College Station, TX.

Bachelor of Science in Computer Engineering –Electrical Engineering (Aug 2005 – Dec 2008)

Minor in Mathematics & Computer Science.

- **GPR (in Major): 4.0**; GPR (overall): **3.872, Magna-cum-Laude**
- **Ranked 1st** in class of 2008 (Computer Engineering)

RESEARCH & WORK EXPERIENCE

Software Engineering Intern, **Google Inc.** (Search Group) (05/08 – 08/08)

- Designed and Implemented Multi-Threaded Framework to enable Python Services for Search
- Worked on creating a Distributed Python Service in C++

Design & Verification Intern, **Marvell Semiconductor** (Advanced Component Design Group) (06/07 – 12/07)

- Top-Level Design & Verification of two next-generation ARM based Processors.
- Assembly verification of all RTL modules of Processor.

Research Assistant, **PARASOL Laboratory** (Algorithms Group) (09/05 – 05/09)

- Associated with development of Standard Template Adaptive Parallel Library (STAPL)
- Mentored two undergraduates & Participated in Undergraduate Summer Research 2006
- Paper on Designing and Developing a generic library for property-based graph generation:
O Harshvardhan, S Mittal, K Bacon, O Pearce, C Raman, G Tanase, N Thomas, N Amato,
L Rauchwerger, STAPL Graph Generator Library
- **Research Projects:** Property-based Graph Generation, Designing Parallel Graph Algorithms,
Designing and Testing Parallel Containers and Algorithms in the STAPL framework.

HONORS & ACCOMPLISHMENTS

- **Bolton Scholarship** from Department of Electrical and Computer Engineering, TAMU.
- **Dean's List**, Dwight Look College of Engineering, TAMU.
- Selected as finalist for “**Outstanding Senior Engineer**”, Texas A&M University.
- **Engineering Scholars Program Honors Certificate**, Dwight Look College of Engineering
- Research Proposal selected for University **Undergraduate Research Fellows** program.
- Member of **Tau Beta Pi** and **Eta Kappa Nu** Engineering Honor societies.
- Won several prizes at numerous technical symposia and National Informatics Olympiad.

TECHNICAL EXPERTISE

- Operating Systems: Windows, Linux, Unix, Mac OS.
- Languages: C, C++/STL/Boost, Java, Assembly (x86, MIPS, ARM), Verilog, Perl, Python.
- **Generic programming, Parallel programming**, Programming Libraries Development.
- Software: GCC/G++, Visual Studio, pSpice, QuestaSim, xemacs, javac, Maple, Matlab.

RELATED COURSE WORK

Analysis of Algorithms, Computer Architecture, Microprocessor Design, Operating Systems,
Programming Language Design, Networking (grad-level)

LEADERSHIP & ACTIVITIES

- **President**, Eta Kappa Nu Electrical and Computer Engineering Honor Society 2008.
- **Vice President**, Tau Beta Pi Engineering Honors Society 2008.
- **Programming Chair**, ACM/Texas A&M Computing Society 2007.
- Languages: Fluent in English, Hindi (Native), Sanskrit.
- Organizations: IEEE, ACM, Tau Beta Pi, Eta Kappa Nu, India Association, Texas A&M Kendo.