

Guruprasad Aphale.

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Education

Masters of Science in Computer Science - May 2011 (Anticipated)

University of North Carolina at Chapel Hill (UNC)

Bachelor of Engineering in Computer Engineering. - May 2007. GPA: 3.62

Pune University.

Diploma in Computer Techonology. - May 2003. GPA: 3.92

Maharashtra State Board of Technical Education.

Technical Skills

- **Programming Languages:** C/C++ (Expert), Java (Proficient), Perl (Intermediate), Python (Intermediate).
- **Other Languages:** HTML, ASP, XML, VB Script, Java Script, Shell Script, Latex
- **Operating Systems:** Windows, Linux, Solaris
- **RDBMS:** Oracle 9i, MS Access, PostgreSQL, MySQL

Work Experience

- Teaching Assistant at University of North Carolina at Chapel Hill Jan 2011 till date
- Student Intern at AT&T Research Labs, May 2010 – Jul. 2010.
- Research Assistant at University of North Carolina at Chapel Hill August 2009 to December 2010
- Researcher at Tata Research, Development and Design Centre (TRDDC), Pune, research lab of Tata Consultancy Services (TCS) Aug.2007 to Aug 2009.

Industry Projects

- **Title: Performance Monitoring and Analysis of Active Data Warehouses**
Duration: May 2010 – Jul. 2010
Responsibilities: Design, implementation and testing of
 - data collector for Solaris performance data
 - data collector and parser for active data warehouse processes
 - analysis tool for identifying performance bottlenecks
 - Involved coding in C++, perl, shell script on Solaris and Linux servers
- **Title: Agent-less Monitoring Solution (AMS)**
Duration: Dec 2008 – May 2009
Responsibilities: Design, implementation and testing of
 - data collector for RHEL 5.1 inventory data and performance data
 - non intrusive network traffic monitor
 - installer module, which detects various components in a data center and configures the monitoring server to monitor them.
 - Performance analysis for performance data
 - Involved coding in C, perl, shell script and Java on Linux as well as Windows 2003 servers

- **Title: MAP (Monitor, Analyze and oPimize)**
Duration: April 2008– Dec 2008
Responsibilities: Design, implementation and testing of
 - data collector for RHEL 5.1 inventory data using Pegasus CIM Server and CIM providers and performance data using Sysstat 8.0 utilities
 - non intrusive network traffic monitor
 - installer module, which detects various components in a data center and configures the monitoring server to monitor them.
 - Performance analysis for performance data
 - Involved coding in C, perl, shell script and Java on Linux as well as Windows 2003 servers

Academic Projects

Masters

- Implementation and evaluation of real-time scheduling algorithm EDF-WM in LITMUS^{RT} (UNC's real-time operating system testbed based on Linux kernel)
- Resource synchronization for mixed-criticality systems

Undergraduate

- **Non-intrusive network traffic analysis and monitoring tool**
Designed a tool to capture the network traffic targeted at enterprise servers and give the detailed payload analysis of it. The payload analysis includes dependency tracking, workload analysis. Workload analysis includes classification based on type of workload. Dependency tracking includes determining dependency on a particular server.
- **Modem Works v1.0**
It consists of various modem applications such as chatting, file transfer, modem programming, call tapping, detailed modem information retrieving etc. For modem programming, the AT commands were used. Modem interaction was done without using modem drivers.

Publications

- Sangameshwar Patil, Guruprasad Aphale, Ankit Mehrotra, Harrick Vin and Rahul Kelkar: Run-time Dependency Tracking in Data Centers. Compute – 2010, January 22-23 2010. Organized by ACM Bangalore, India.

Achievements

- Awarded **ILP Top Performer** for Initial Learning Program in TCS. (Feb-April 2008)
- **2nd prize** at **State level C Programming Competition** held in Feb 2005.
- Won **2nd prize** at national level project competition organized by **Indian Society for Technical Education (ISTE)** in Oct. 2004
- Stood **6th in State** and **2nd in College** in **Final Year Diploma Exam** in Computer and IT Dept.
- Won **2nd prize** in **Symposium 2004** (Paper Presentation Contest) at Sou.Venutai Chavan Polytechnic, Pune. (Network Security – Intrusion Detection)
- Got **MTS** (Maharashtra Talent Search) scholarship in 8th and 9th standard

Co-curricular Activities

- Organized “Systems Tea” at UNC-Chapel Hill (Fall 2010), in which a guest speaker gives a presentation once a week
- Organized **National Level C/C++ Programming Contest** (Pradnya) at Pune Institute of Computer Technology (PICT), Pune in 2006.