

## **OBJECTIVE**

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To pursue a challenging career in computer science industry that will utilize my problem solving and programming skills, allow me to take responsibilities and harness my potential to pioneer the future.

## **EDUCATION**

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**Georgia Institute of Technology, Georgia, M.S. in Computer and Information Science and Security, GPA 3.5 Dec '09**

**Pune University, India, B.E. in Computer Science with First Class May '07**

## **EXPERIENCE**

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**Global Payments Inc. (Atlanta): [http://www.globalpaymentsinc.com] [Intern - Software Engineer] Summer '09**

Project: Maintained a Unix based backend server for an online merchant product which pulls the data from a Sybase database & passes it to .NET based front end.

Achievement: Succeeded in solving two critical problems/bugs within first month of the internship which were causing unexpected shutdown of the server and hampering the performance.

**Calsoft Pvt. Ltd. (India): [http://www.calsoftinc.com] [Development Engineer] July '07- June '08**

Project: The Change Log Journaling Driver is a kernel module whose main task is to create a bitmap for the disk blocks which are modified. This module along with the user level library of APIs and scripts were deliverables of the project which were used by a well know backup and recovery product. Platforms: Linux, Solaris, Aix

Achievement: Received Good Performance award within 6 months. My library APIs and scripts are part of the product.

**College of Computing, Georgia Tech. (Atlanta, USA): [Teaching Assistant/Grader] Fall 2009**

Course: CS6210: Advanced Operating Systems

Duties: Grading student assignments, proctoring exams and holding TA office hours for the graduate level course.

## **ACADEMIC PROJECTS**

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**XenAccess - Active Memory Monitoring:** Currently writing APIs for XenAccess library which are built on top of newly added primitives from XenControl library which support active memory monitoring.

I will also build an application which uses these APIs to solve security issues of the user domain by active memory monitoring. **[http://xenaccess.org/] [C, Xen Virtualization Platform] Fall 2009**

**Wanderlust - Interactive Traveler's Guide:** A mash up application using several APIs and Web 2.0 technologies, which provides relevant travel-based information in the form of video, blogs, maps, tweets, and localized IM.

**[MySQL, PHP, Web APIs] Fall 2009**

**Secure DFS:** Designed and developed a simple Secure Distributed File Service that stores copies of files created by its users at client machines where client and server authenticate each other using certificates. **[Java, Windows] Spring '09**

**Priority Based Co-scheduler:** Implemented a Priority Based Scheduler and a Co-scheduler for user level threads. This also deals with multi-processor environment and schedules threads considering processor affinity.

**[C, Pthreads, Linux] Fall 2008**

**Recoverable Virtual Memory:** API library is created which returns the state of the memory in case of abnormal system crash with the help of UNDO log. **[C, Linux] Fall 2008**

**Performing Inter-process Services:** By using a shared memory and message queues, a server gives services to multiple clients based on their priorities. **[C, Linux] Fall 2008**

**IDS protection for SSL encrypted traffic:** A network based solution that helps Snort(IDS) to detect suspicious activity if VPN using SSL is used. **[Snort, OpenSSL] Spring '07**

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## SKILLS

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- Languages and Scripts: C, C++, Java (core), Visual Basic, 80x86 Assembly, Bash Script, Java Script
- Platforms: Linux, Solaris, Aix, DOS, Windows, Xen, VMware Server and Workstation, Red Hat Cluster Suite
- Databases: MySQL, Oracle, MS Access, PL/SQL
- Tools: Snort, Open SSL, Wire Shark, Nmap, IDA Pro, Eclipse, Flex, Yacc, NetBeans, Rational Rose

## RELEVANT COURSEWORK

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**Masters:** Advanced Operating Systems, Secure Computer Systems, Network Security, Advanced Internet Applications, Information Security Policies, Enterprise Middleware, Software Security (audit), Applied Cryptography

**Bachelors:** Computer Networks, Design and Analysis of Algorithms, Object Oriented Modeling and Design, Database Management Systems, Embedded Systems, Computer Graphics

## ACTIVITIES

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State level academic scholarships in high school

Trusted Infrastructure Workshop @Carnegie Mellon University in Summer '09

2nd Dan Brown Belt of Shito-Ryu-Karate

Led Outdoor Adventure Camps

3 Years Experience of Playing Tabla (a classical instrument)

Team Lead – VIT TechFest 2007

Member - VIT Cultural Group & Calsoft Cricket Club

Leisure Learning – Cuda, iPhone and Android Development, SIP

## REFERENCES

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Available upon request