

Raghunathan Srinivasan

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Objective

To obtain a position that utilizes and enhances my programming skills.

Education

Ph.D. , Computer Science Arizona State University, GPA: 3.83/4.0	August '07 – May '11 (Expected)
M.S. , Computer Science Arizona State University, GPA: 3.78/4.0	August '05 – July '07
B.E. , Computer Science & Engineering Anna University, India, GPA: 3.6/4.0	August '01 – May '05

Summary

- Strong C coding skills
- Industry experience in Linux kernel programming and Linux device driver programming
- Experience in writing complex SQL queries
- Experience with scripting tools such as Python
- Experience in administering Linux machines
- Competent with the use of Microsoft Office suite

Skills

Languages	C, C++, Java, C#, SQL, Python
Web Technologies	HTML, XHTML, JavaScript, PHP
Databases	MS Access, MySQL
Tools	Visual Studio IDE, Dreamweaver, Photoshop, MS Office Suite, Fireworks
Platforms	Windows (2000, XP), Linux (Fedora Core and Ubuntu)

Experience

Graduate Technical Intern January '10 – May '10

Intel Corporation, Chandler, Arizona

- Optimized IPSec forwarding on Intel XEON servers using Linux
- Used Intel 82599 NIC and 82575 EB NIC to determine bottlenecks in IPSec forwarding
- Made changes to standard Linux kernel to increase 3 DES MD5 IPSec throughput by 13 percent
- Incorporated buffer recycling in device driver to increase IPv4 forwarding throughput by 15 percent

Graduate Technical Intern October '09 – December '09

Intel Laboratories, Intel Corporation, Hillsboro, Oregon

- Created a clean room micro Virtual Machine Monitor for the x86_64 architecture
- Utilized the Intel VT-x extensions on Intel Core i7 processors
- VMM was created in less than 5000 Lines of C and assembly code

Python Programmer

August '09 – September '09, May '10 – July '10

School of Social and Family Dynamics, ASU

- Documented an existing undocumented project of more than 2000 lines of code
- Analyzed DEF 14 A statements of more than 15,000 firms to find CEO compensation peers
- Matched unstructured text to identify social ties among businesses
- Modified existing python code to execute a new instance of analysis
- Modified program to run on 6 processing cores

Graduate Teaching Assistant

January '07 – May '09

School of Computing & Informatics, Ira A. Fulton School of Engineering, ASU

- Graded Mid-terms, Final Exam, Assignments
- Created projects on Digital Certificates, Code Injection, Buffer Overflow, and Use of debugger options in Linux

Graduate Research Assistant

January '09 – May '09

VLSI Electronic Design Automation Lab, Ira A. Fulton School of Engineering, ASU

- Installed and administered two Red Hat Enterprise Edition Linux servers
- Installed Cadence, Synopsys, and Mentor Graphics tools on the machines

Graduate Assistant

June '06 – December '06

Office of Professional Field Experiences, Mary Lou Fulton College of Education, ASU

- Maintained database and executed queries on records of more than 7000 students
- Maintained office website

Web and Instructional Developer,

February '06 – June '06, August '08 – January '09,

and May '09 – August '09

Business and Information Technology, W.P. Carey School of Business, ASU

- Created course modules using XHTML and ASU Blackboard for the Online MBA program

Undergraduate Intern

December '02 – January '02

Reliance Infocomm, India

- Analyzed the construction phase of the Telecomm Project
- Created a report on reasons for the slowdown in the construction of nationwide optic fiber network

Publications and Presentations

- R. Srinivasan and P. Dasgupta, "Towards more effective Virus Detectors," *Communications of the Computer Society of India*, volume 31, no. 5, pages 21 – 23, August 2007
- R. Srinivasan, P. Dasgupta, A. Kanitkar, and V. Iyer, "Malware Resistance using Memory Randomization and Remote Attestation," *Information Assurance Research and Education*, Second Annual Workshop, Arizona State University, May 2009
- R. Srinivasan, P. Dasgupta, V. Iyer, A. Kanitkar, S. Sanjeev, and J. Lodhia, "A multi-factor approach to securing software on client computing platforms," *2nd IEEE International Conference on Privacy, Security, Risk and Trust*, August 2010

Ph.D. Research:

- Code injection inside Linux Processes using Inline Assembly and C
- Execution of re-locatable assembly code on client machines; code generated by remote server
- Hiding secret data in software

M.S. Thesis: *Protecting Anti-Virus software under viral attacks*

- Designed and developed methodology to prevent disabling of Anti-virus by malware
- Implemented code injection and multiple watch processes for process concealment

Course Projects (Design and Implementation)

- Hijacking authenticated sessions across multiple virtual machines
- Access control models for data records
- Client Server modules for incorporating mutually exclusive resource access
- XML File format for Haptic data
- Enabling third party authentication for Windows 2000 logon process
- Simulation of Enigma encryption machine