RITESH RAJIV POREY

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EDUCATION

North Carolina State University, Raleigh, North Carolina   GPA: 3.56/4.00
Master of Science in Computer Science.   *May 2017*
Pune Institute of Computer Technology, University of Pune, India   Senior GPA: 3.79/4.00
Bachelor of Engineering in Information Technology.   *June 2015*

RELEVANT COURSEWORK

Design and Analysis of Algorithms, Software Engineering, Computer & Network Security, Internet Protocols, Computer Networks, Database Management Concepts and Systems, Software Security, Artificial Intelligence, Data Driven Decision Making.

SKILLS

Software languages   : C, Java, Python, SQL, C++, VB 10, HTML, Shell Scripts.
Databases   : Oracle 10g, SQL Server, MS Access.
OS used   : Linux, Windows XP/7/8/10, MAC OSX
Tools   : MS Office, OPNET, LaTeX, Wireshark, vSphere 6, MATLAB, IBM Watson Content Analytics.

EXPERIENCE

Nutanix: System Reliability Engineer Intern (May 2016 – August 2016):
- Debugged and diagnosed customer issues encountered in the Nutanix integrated Compute/Storage solution.
- Managed the Network configurations needed in the Nutanix Hyperconverged Solution.
- Provided analysis of existing customer configurations, deployment strategies, and processes to increase system availability.
- Worked on VMWare vSphere 6 to manage customer environments.
- Wrote custom shell scripts pertaining to the need of customers.

PROJECTS

nMASE(Network Monitoring and Search Engine): Introduced concept of network search engine and ranking of network traffic. nMASE is built upon Boolean model of Information Retrieval and is capable of finding relevant content from a huge network trace based on simple natural language queries. This leads to significant reduction in the time that network administrators spend in scanning through colossal network activity. Captured packets using PF_ring library in C. Processed packets and extracted metadata using regex library in Python. Used Python Django framework for the Web development.

A Simple FTP Server using UDP and Go-Back-N: Implemented a FTP server in Python but with using the UDP Protocol. The UDP communication with the server is made reliable with the implementation of Go-Back-N sliding window protocol.

Peer-to-Peer Centralized Index(P2P-CI) for sharing RFCs: Built a P2P-CI system in which peers who wish to download an RFC that they do not have in their hard drive, may download it from another active peer who does. All communication among peers or between a peer and the server will be taking place over TCP. Implemented the system using Python.

Investigation of Protocol Handshakes on Mobile Devices for Data Protection: We split apps into different classifications and analyze the protocol handshakes used for data in transit, specifically identifying the use of off-the-shelf encryption and data protection mechanisms on Android devices.

Library Management System: Designed and developed a Library Management System for NCSU libraries as an academic project. Applied various DBMS concepts and used Oracle 11g and Java to develop it.

Online Magazine Portal: Developed an online magazine portal through which students and teachers can stay in touch with recent technical trends. Used HTML, JavaScript and CSS for web development and also used Oracle 10g and JSP.

Stationary Management System: The application provided functionalities like billing, stock information, sales analysis and automatic dispatch of stock. Used Visual Basic 10 and Oracle 10g.

PUBLICATIONS

nMASE – A Search Engine for Network Trace: Published in International Journal of Science and Research, August 2016.

ACHIEVEMENTS

nMASE(Network Monitoring and Search Engine):
- 1st Prize Quick Heal Best Project and 1st Prize in Paper Presentation INC'15 at PICT, Pune.
- 2nd Prize in Paper Presentation at Vishwakarma Institute of Technology, Pune 2015.
- 2nd Prize in Paper Presentation at Maharashtra Institute of Technology, Pune 2015.
- 3rd Prize in Paper Presentation at Cummins College of Engineering, Pune 2015.

OTHER ACTIVITIES

Student Member of IEEE, 2012-2015.
Treasurer of PICT IEEE Student Branch, 2013-2015.
Represented High School and Junior College for Cricket.