RIDDHI REX

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EDUCATION

STONY BROOK UNIVERSITY
MS IN COMPUTER SCIENCE
Expected Grad: Dec 2018

SYMBIOSIS CENTER FOR DISTANCE LEARNING
POST GRADUATE DIPLOMA IN IT MANAGEMENT
Grad: May 2016
Percentage: 81.2%

THIAGARAJAR COLLEGE OF ENGINEERING
BACHELOR OF ENGINEERING
Computer Science and Engineering
Grad: May 2014
Percentage: 90.4%

SKILLS

PROGRAMMING
Python • C • C++ • Perl • Java

SCRIPTING
Python • Perl

STORAGE SYSTEMS
MySQL Oracle • DB2

TOOLS
Linux Traffic Control • Wireshark Packet Capture • Ixia • Jira • Git • NS3 • Perforce • Gerrit • Bugzilla • Jenkins

WEB TECHNOLOGIES
HTML5 • Javascript • J2EE

COURSEWORK

Analysis of Algorithms
Operating Systems
Theory of Database Systems
Artificial Intelligence
Data Science Fundamentals
Wireless and Mobile Networks
Data Mining
Computer Vision

EXPERIENCE

AKAMAI TECHNOLOGIES | SOFTWARE ENGINEERING INTERN
May 2018 – Aug 2018 | Cambridge, MA
Worked in the DNS Mapping functionality of Akamai. Developed a wrapper for Linux Traffic Control tool. Generated Cycle Time Comparison Graphs of the processes in the Testnet and the Production.

ARICENT | SENIOR SOFTWARE ENGINEER
July 2014 – July 2017 | Chennai, India
Worked in Feature developments in Datacom domain on L2 and L3 protocols mainly BGP, RIP, OSPF, IPV4, IPV6, TCP/IP, VLAN, MAC, VRRP protocols in Linux platform. Worked on multiple Urgent and High priority customer issues. Awarded Extraordinary Performer for consistently achieving the goal and delivering quality code in a timely manner.

ARICENT | TRAINEE
Dec 2013 – June 2014 | Chennai, India
Automated the testing of ELPS protocol over MPLS network with packet capture functionality.

INDIAN INSTITUTE OF TECHNOLOGY | RESEARCH INTERN
May 2013 – July 2013 | Hyderabad, India
Proposed an efficient SON based handover decision algorithm for LTE Femtocells for reducing delay, signaling cost and packet drop. This approach achieved 31.5% improvement in reducing handover delay compared to the existing handover scheme.

PROJECTS

CREATION OF SECURE GARBAGE FOLDER IN LINUX KERNEL | C
Created a secure garbage folder in a Stackable filesystem environment. When a file is deleted, it will be moved to a special hidden folder. A provision was added to revert and to list the contents of the folder based on user permission.

AUTOMATIC BUILDING OF BOOK INDICES | PYTHON
Built a tool that applies the principles of Data Science to automatically build back-of-the-book indices by analyzing the user given document. Achieved an accuracy of 85%.

ZILLOW'S HOME VALUE PREDICTION | PYTHON
Completed Data Science problem on Kaggle.com where the sale prices of houses are predicted.

DETECTING MUSIC INSTRUMENTS IN A SONG | PYTHON
Used Machine Learning on this Acoustic Sensing project to detect what instruments are played in a music piece. 13 different instruments were predicted with an accuracy of 81%.

IMPROVING QOS IN MIPV6 NETWORK | C++
I studied the behavior of binding cache of nodes and its effects on QoS and proposed a method for reducing the packet loss by efficient load balancing among the nodes.

TOPIC MODELLING | JAVA
Developed a Content-based search mechanism to find the topic of the document. This project was sponsored by Honeywell Technology Solutions.

PUBLICATION

Efficient SON Handover Scheme for Enterprise Femtocell Networks. 2013 IEEE International Conference on Advanced Networks and Telecommunications Systems, ANTS 2013. 10.1109/ANTS.2013.6802870

ACHIEVEMENTS

- Recipient of IASc-INSA-NASI Summer Research Fellowship (2013).
- Best Paper Award for "Intelligent Transportation System using Mobile Wireless Sensor Networks" in National level symposium at Anna University.