RIDDHI REX ANTONYREX

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EDUCATION

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

SYMBIOSIS CENTER FOR DISTANCEC 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%

COURSEWORK

GRADUATE COURSES: Analysis of Algorithms, Artificial Intelligence, Data Science Fundamental, Wireless and Mobile Networks

EXPERIENCE

ARICENT, CHENNAI, INDIA | SENIOR SOFTWARE ENGINEER

July 2014 – July 2017

Worked predominantly in Datacom domain. Involved in the development of feature enhancements and new functionality of Layer3 protocol in HP Procurve switches in Linux platform.

ARICENT, CHENNAI, INDIA | TRAINEE

Dec 2013 – June 2014

Automated the testing of ELPS protocol over MPLS network with packet capture functionality.

INDIAN INSTITUTE OF TECHNOLOGY, HYDERABAD, INDIA | RESEARCH INTERN

May 2013 – July 2013

Proposed an efficient SON based handover decision algorithm for reducing handover delay, signaling cost and packet drop.

SKILLS

- Programming Languages :   C, C++, Python, Java
- Tools: Ixia, Ns3, Netbeans, Eclipse, Jupyter, PyCharm, Multi, Wireshark Packet Capture, Bugzilla, Jira
- Network Protocols :   TCP/IP, OSPF, BGP, RIP, MPLS, IPV4, VRRP, CLI, SNMP
- Database :   Oracle 9i, Mysql, DB2

PROJECTS

ZILLOW'S HOME VALUE PREDICTION
Sep 2017 – Oct 2017
This is a competition on Kaggle.com website. This project is a Data Science problem where the sale price of the houses has to be predicted before its sales. It uses Random Forest regression model to predict the final sale price of the houses.

AUTOMATIC BUILDING OF BOOK INDICES
Sep 2017 – Nov 2017
The purpose of the project is to build a tool that applies the principles of data science to automatically build back-of-the-book indices by analyzing the user given document.

DETECTING THE MUSIC INSTRUMENTS IN A MUSIC PIECE
Sep 2017 – Nov 2017
The project is based on Acoustic Sensing and learning to detect what kind of instrument is used in a music piece. It will identify the instruments played in a music track and classify them as Piano or Guitar or Band or likewise. It can classify up to 50 instruments including human voice.

AUTOMATION OF TESTING OF ELPS PROTOCOL OVER MPLS NETWORK
Dec 2013 – July 2013
Automated the process of verifying the working of ELPS protocol over MPLS network. It evaluates the path taken by the packet, the ports through which it passes to reach the destination and its contents.

ENERGY EFFICIENT INTER-FEMTOCELL HANDOVER IN LTE
May 2013 – July 2013
In this project, an efficient SON handover scheme was proposed to mitigate the unnecessary handovers. The proposed approach uses building information and estimated UE position for making handover decision. Proposed approach achieves 31.5% improvement in reducing handover delay compared to existing HO scheme.

IMPROVING QOS IN MIPV6 NETWORK
July 2012 – November 2012
This project was targeted at improving the QoS in MIPv6 network. The behavior of binding cache of nodes and effects on QoS were studied and a method for reducing the packet loss by efficient distribution of load among the nodes was proposed.

TOPIC MODELLING
Jan 2011 – May 2011
This Text Analytics project evaluates the article to find the topic of the document. Instead of topic based search, content based search mechanism was adopted. It aims at improving the search engine efficiency. This project was sponsored by Honeywell Technology Solutions under HTS University Relations Program.

PAPERS PRESENTED

- Published a paper on Efficient SON Handover Scheme for Enterprise Femtocell Networks at IEEE International Conference on Advanced Networking and Telecommunication Systems (ANTS) 2013. http://ieeexplore.ieee.org/abstract/document/6802870/
- Received The Best Paper Award for presenting a paper on Intelligent Transportation System using Mobile Wireless Sensor Networks in Kurushektra 13', a National level symposium conducted by Anna University.
- Presented a paper on Home Agent load balancing in MIPv6 networks in National Conference on Communication and Engineering (NICE 12).

ACHEIEVEMENTS

- Recipient of IASc-INSA-NASI Summer Research Fellowship(2013). Worked as Research Intern with Dr.Bheemarjuna Tamma, Head of the Department, Computer Science, IIT, Hyderabad on LTE Femtocells.
- Completed Oracle certified course on Core Java Programming language using Java SE6 and Cisco Certified Network Associate course.
- A Competent Table Tennis player. Emerged as First runner-up in State Championship tournament 2010. Captain of women's Table Tennis team for 3 years (2012- 2014).