

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

Analysis of Algorithms

Artificial Intelligence

Data Science Fundamental

Wireless and Mobile Networks

UNDERGRADUATE

Data Structures and Algorithms

Computer Networks

Object Oriented Programming

Web Technologies Operating Systems

EXPERIENCE

ARICENT, CHENNAI, INDIA | SENIOR SOFTWARE ENGINEER

July 2014 – July 2017

Worked predominantly in Datacom domain. Involved in the development of feature enhancements, new functionality in HP Procurve switches in Linux platform. It included requirement analysis, designing, coding, unit testing, debugging, documentation and implementation.

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

The handover methods using S1 interface and X2 interface was simulated and the signaling overhead was found in each case. Proposed an efficient SON based handover decision algorithm for reducing handover.

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.

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 upto 11 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 was done for various topologies covering several scenarios. Also the path taken by the packet, the ports through which it passes to reach the destination and its contents were verified

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. Simulation results showed that our proposed approach achieves 31.5% improvement in reducing handover delay compared to existing HO scheme. This work was supported by the Deity, Govt of India.

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 given as input by scanning the text corpus. By estimating the topic word distribution, the topic or the domain of the document is found. 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.
- 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 Reddy Tamma, Head of the Department, Computer Science and Engineering, Indian Institute of Technology, Hyderabad on LTE Femtocell networks.
- 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) and won Runner-up place in Zonal tournaments during 2010, 2013 and 2014.