RIDDHI REX

riddhirex.antonyrex@stonybrook.edu | +1 (346) 763-0976
linkedin.com/in/riddhirex/ | riddhirex.github.io/

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
- 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.