

# AAKASH AGGARWAL

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## EDUCATION

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Department of Telecommunication, University of Maryland, College Park  
Masters of Science in Telecommunication – (Computer Networks/Network Engineering)

August 2017- Current

Amity School of Engineering and Technology, Amity University, Noida  
Bachelor of Technology – Electronics and Communications Engineering

July 2010- May 2014

## SKILLS

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- **Programming Languages and Tools:** Java, C/C++, Python, SQL
- **Protocols:** TCP/IP, UDP, HTTP, DNS, DHCP, BGP, RIP, OSPF, IPv4/IPv6, IGRP, FTP, SSH, Telnet, NAT
- **Operating Systems:** Linux, Unix, Windows
- **Tools:** Wireshark, nmap, Snort, Tableau, Excel, Access, Db Visualizer

## WORK EXPERIENCE

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Ericsson India

July 2016- June 2017

Senior Network Engineer – Network Administration and Design

- Directed the performance tuning of Windows 2003/08 Server environment for client's global operations.
- Resolved a history of problematic network failure by troubleshooting LAN/WAN connections between multiple cellular nodes for a European network service provider.
- Replaced major manufacturer's vulnerable network with robust security through joint architecture of firewall and DHCP.
- VDI administration using vmware Horizon View to maintain user accounts.
- Responsible for hardware and software applications for workstations, servers, and network data communications. Collaborated with executive management and department leaders to assess network capacity needs.
- Worked on Uplink Coordinated multipoint reception and Multiuser MIMO real network implementations

Ericsson India

November 2014- June 2016

Network Engineer- Network Design, Optimization and Planning

- Network Consulting Engineer in Ericsson Network Engineering Team in a customer facing setup
- Provided statistical network analysis reports to the management to identify the network blind spots
- Design, planning and optimization of networks (wireless and mobile networks)
- Automated network auditing procedures using scheduling Cronjobs and writing an Audit application using Java
- Team lead for a 6-member team responsible for LTE 2300 band site expansion for Rio Olympics in Brazil

**Technologies Involved:** MS Excel, Access, VB, MATLAB, WCDMA, LTE, GSM, Scripting in Python, Cronjob scheduling, Server management, SQL, HTML, Java etc.

## ACADEMIC PROJECTS

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- 5G Protocol Stack Development using the existing LTE stack in srsLTE (**Python, C**) January 2018
- UDP Based Client-Server Distributed Network Design in Java (**Computer Networks, Sockets in Java**) November 2017
- IP/ Domain Dossier System using Client-Server interface via TCP/IP protocol. (**Data Structures in C**) October 2017
- Implemented Reversible Watermarking Algorithm Using TNG function (**Image Processing, MATLAB**) May 2014
- Genre Based Classification and Recommendation of Music using MFCC (**Statistics, Machine Learning**) January 2014

## ACHIEVEMENTS

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- **Ericsson Rockstar ACE Award Q2 '2016** July 2016
- **Ericsson Rockstar ACE Award Q3 '2015** October 2015
- 2<sup>nd</sup> among more than 1000 entries at paper presentation at an IEEE event at Amity University. September 2013

## VOLUNTEER EXPERIENCE

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We for India (Amity University Student Organization) – Program Leader

January 2011 – February 2014

- Led a team of 35 volunteers to implement a process designed to uplift the standard of living for children with disability in orphanages across Delhi and National Capital Region
- Compiled and prepared presentation visual aid for meetings with sponsors