

# Payal Dalal

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## EDUCATION

**University of Maryland, College Park**

MS, Telecommunications Engineering; **GPA 3.68/4**

College Park, MD  
Expected May 2017

**Yeshwantrao Chavan College of Engineering**

BE, Electronics Engineering; **GPA 3.6/4**

Nagpur, India  
May 2015

## TECHNICAL SKILLS

**Certifications:** Cisco Certified Network Associate (CCNA) **Cisco ID: CSC013045489** Valid: September '16- September '19

**Software Skills:** JAVA, C, SQL, Python

**Networking knowledge:** Troubleshooting, OSI Layers, CLI commands, LAN/WAN, Router & Switch configuration, Routing Protocols, DNS, DHCP, BGP, OSPF, Ethernet, Servers, Network Security, IPSec, VoIP, VPN, SSL, NAT, Firewall, ACL

**OS & Tools:** Linux, Windows, Microsoft Office Suite, Amazon Web Services, Packet Tracer, MATLAB, Wireshark, Eclipse, Visual Studio, Analytic Software (Excel Solver), Mentum Planet, Poseidon

**Management Skills:** Analysis on companies for various management factors; Case Study on Marketing Strategies

## RELEVANT COURSEWORK

Networks and Protocols I & II,  
Internet of Things,

Network Programming with C,  
AWS&PCS systems implementation,

Cloud Computing,  
Management & Organizational Behaviors

## ENGINEERING PROJECTS

### **Distributed Networking Application in JAVA**

Sept 2015-Dec 2015

- Designed and Built a client and server distributed-application for reliable data transfer using stop-and-wait protocol.
- Ensured data integrity and user authenticity by implementing RC4 algorithm for cryptographic authentication.
- Demonstrated the application's ability to handle various abrupt/unpredictable events.
- Implemented the code using code modularity and supplementary coding conventions.

### **GSM, LTE deployment using Mentum Planet**

Sept 2015-Dec 2015

- Optimized in-building and vehicular coverage on major roads by planning and simulating GSM deployment of 30 cell sites.
- Also implemented 3 LTE sites in College Park area for providing mock LTE Data coverage at minimum speed of 5Mbps.

### **Intelligent Transportation System: Vehicle Tracking through Kalman Filter**

Mar 2016- May 2016

- Implemented Kalman Filter algorithm that tracks the position and velocity of the moving vehicle using MATLAB.
- GPS observation data and acceleration values were used to track the required parameters of the vehicle.

### **Automatic detection of Diabetic Macular Edema using MATLAB**

Dec 2014- April 2015

- Implemented an efficient algorithm for automatic detection and classification of blood vessels in the retinal fundus image.
- Adaptive Neuro Fuzzy Inference System and Extreme Learning Machine were used for severity classification.

## WORK EXPERIENCE

### **Student Office Assistant**

Engineering Information Technology- University of Maryland

College Park, MD

Sept 2015-Present

- Excelled at office & IT operations which included setting up & troubleshooting of printer machines and PCs.
- Hands-on expertise with MS tools like Excel for accounts reconciliation and budgeting purposes.
- Developed customer understanding by responding to telephone calls, email and personnel requests for troubleshooting and printing services.
- Demonstrated customer satisfaction skills by diffusing stressful situations and serving requests promptly.

### **Desktop Support Assistant**

YC College of Engineering

Nagpur, India

Mar 2014- May 2015

- Performed general maintenance of lab PCs and Troubleshoot issues associated with them.
- Responsible to Install and upgrade various software like MATLAB, Orcad, PSpice.

## LEADERSHIP ACTIVITIES

- Member of Graduate Student Association (GSA) at University of Maryland. October '15- Present
- Student Organizer of ICON (a national level technical festival) at YC college of Engineering. November '14- February '15
- Co-Head of Electronics Student's Association at Yeshwantrao Chavan College of Engineering, India. September '13-May '15