MIHIR PITALE

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COMPUTER NETWORKING and APPLICATIONS ENGINEER (Cloud Technologies | Network and UI monitoring)

A graduate student pursuing M.S degree in Electrical Engineering (Computer Networking) at UMKC. Excel at learning new technologies. Outstanding cross-functional team collaborator and an excellent communicator with the ability to focus in a high-energy fast paced environment

TECHNICAL SUMMARY

➢ Hands-on experience in Android studio to create IOT based application to connect teams and fans by creating JSON files with collaboration for FANTHREESIXTY

➢ Core Competencies include working GUI in android studio, Firebase, java, MySQL database, Microsoft Visual Studio Code, eclipse, Load Balancing, Install and configure servers, GNS3, Putty, Cisco Packet Tracer

➢ Deep level knack of strategy and deployment of AWS cloud-based technologies like EC2, S3, Route 53, Elastic IP'S, EPC, Cloud watch, Cloud front and ELB to implement fault tolerance

➢ Knowledge of creating appropriate AWS service and monitoring performance by creating databases using RDS

➢ Familiar with CCNA fundamentals, deployment of DHCP, DNS, FTP, EIGRP, OSPf, and RIP protocols in cisco packet tracer as well as hardware router configuration. Installed and configured routers including 1800, 2500 along with switches 3750

EDUCATION

University of Missouri – Kansas City | Master of Science, Electrical Engineering   August 2017-present | GPA: 3.9

University of Mumbai | Bachelor of Engineering, Electronics and Telecommunications   August 2016 | GPA: 3.5

WORK EXPERIENCE

LIGHTANDMAGIC Automation, **Mumbai, India**   June 2016 – November 2016

Installation Engineer

- Communicated with the clients about their requirements and specifications for the LEDs and KNX
- Lead a group of 4 new interns in the light installation project and mentored them for team assignments
- Worked in the marketing strategy group which involved detail survey and meetings with different company clients

ACADEMIC PROJECTS

Virtual VM'S vs cloud-based Docker Analysis   January 2018 – May 2018

- Comparison of different parameters between cloud-based Docker and VM's performance
- Calculation of GPU time and creation of 3-node cluster running through virtual swarm app
- Developed a voting app for university council running on Docker container id's simultaneously and executed it

SQL Injection and snort defense   January 2018 – May 2018

- Developed our own hackable website using maven build and eclipse compiler and processed it on local host
- Performed tautology SQL injection statements and hacked our website successfully along with manipulation of data
- Prepared a database on p4admin using PostgreSQL tools
- Defended the website by installing and applying snort rules using IDS/IPS techniques

Predict Maze (Android Studio, IOT)   August 2017 – December 2017

- Successfully developed a predictions trivia game with Internet of Things usage under guidance of FANTHREESIXTY team
- Hands on Android studio with intermediate sense of app development and coding
- Worked with firebase database for storing apps data successfully and hosting it on private domain server

Socket programming (chat server) and Web Server Deployment   August 2017 – December 2017

- Worked on GENI to implement client/server socket programming
- Programmed a chat socket program with one server and multiple clients on different pc's using UDP
- Hosted personal website and deployed virtual web server in GENI virtual cloud
- Deployed and configured DNS, HTTP AND FTP server virtually on GENI

MU-MIMO 802.11ac   August 2017 – December 2017

- Calculated SIC (Signal Interference Calculation) by programming MATLAB code with 2 transmitters and two receivers
- Computed DPC (dirty paper coding) calculations and estimated a graph for efficient low error rates
- Attempted to deploy 2x2 MU-MIMO in real environment using LANS virtually

FUZZY DIAGNOSIS OF BIOMEDICAL IMAGES (Final Year Project)   August 2015 – May 2016

- Detected and classified the type of tumor present through image processing and Neuro Fuzzy Logic
- Plotted the grey scale images using database of various tumors and developed MATLAB code
- Showcased project in NCRENB 2016 conference and IEEE conference SUMIT IEEE No. FG-A77235

PUBLICATIONS

- Mihir Pitale, Riya Patil, Tanvi Patil, "Fuzzy Diagnosis of Biomedical Images", at International Journal of Computer Applications, New York, USA (IJCA). (Issue ISBN: 973-93-80892-55-3)