

TEJAS MADAPPA

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SUMMARY

Experienced Creative, problem solving Software Engineer with solid understanding and hands-on experience of almost 2 years in building scalable, distributed, secure software following agile SDLC to power large business solutions. Excellent interpersonal and collaboration skills with global reach.

Core Competencies: Data Structures and Algorithms, Computer Network Design, Network Security, Computer Architecture

SKILLS

- Programming Languages: Python, C, C++, Java, HTML, Javascript, CSS, Powershell, Shell scripting, dApps
- Tools: Nmap, Wireshark, Github, SDK, Eclipse, Buildroot, Putty, AWS, Heroku, TRex, Virtual box, Elastic Search
- Operating Systems and server: IOS, Linux, Windows, Raspberry Pi, Mips Linux, Apache Tomcat, Nginx
- Protocols and Lib-Telnet, SSH, UDP, TCP, SSL, AMQP, MQTT, RSA, TLS, Libpcap, DNS, DHCP

WORK EXPERIENCE

Title: **5BARz Blockchain**, Team size: 5

March 2018 – July 2018

- Development of Blockchain Smart Contract for Network Equipment.
 - Inter-Planetary Filesystem (IPFS) deployment for memory storage. Motion Eye OS for a remote sensing robot.
- Technology stack: dApps, Solidity, Ethereum, Javascript, C++, Hyperledger, Motion, Linux

Title: **5BARz Universal Cookie and Browser Extension**, Team size: 4

June 2017 - February 2018

- Worked on Javascript Universal cookie and Client as PaaS.
 - Implemented API to call the cookie drop reducing deployment time by 40% for YOU Broadband and Vodafone clients.
 - Advertisement blocking, Built Extension for web Browsers to communicate with IoT Hub.
 - Resource logs sent to AWS S3 bucket for analysis. Documentation of Project
- Technology stack: Javascript, AWS S3 bucket, cookies, client storage

Title: **5BARz IoT Hub [Ruby]**, Team size: 6

July 2017 – November 2017

- Data consumption module of each device connected used by 3000+ users following scrum delivering constant improvements every sprint.
 - ISP Detection, ISP Blocking, Firewall building and deployment. Network packets crafting management and deep packet inspection using python Scapy. TRex was used to benchmark the network performance for Quality of Service (QoS).
 - Integration with Remote Management System (RMS) front end and Backend.
- Technology Stack: Python, C++, Javascript

EDUCATION

Master's in **Computer Engineering (Networking)**

San Jose State University, CA

August 2018-May2020

B.Tech in Electronics and Communication Engineering

Amrita School of Engineering, Bangalore, India

August 2013-May 2017

ACADEMIC PROJECTS & INTERSHIPS

Title: **Enterprise Network** using Raspberry Pi **San Jose State University**

Team size:10

August 2018-December 2018

- Apache webserver to host website and connect to larger network with DHCP, DNS, router and Mail server on individual Pi's.
- Connected to Global Router. TCPdump for debugging of web traffic. Handling maximum queries to server.

Technology stack: Apache webserver, Nginx, DNSmasq, Wireshark, Raspberry Pi

Title: **5BARz IoT Hub Internship** Team size: 6

Dec 2016 – May2017

- Programming of IoT Hub with Dual Band Multi- WAN (Wireless Area Network) with seamless switch between wired and wireless lines.
 - System Resource logging increasing efficiency by 30%. Implemented a Proof of Concept for man in the middle using Bettercap, Conducted Arpspoof on network in a test environment
- Technology stack: Wireshark, Putty, Nmap, Wireshark, Libpcap, ssh, Boa webserver, Buildroot, Linux, Virtualbox

Reported vulnerability to India's Biggest shopping website's security team.

Cisco Machine Learning Hackathon- Finished in the top 10 team with 100 teams participating using Elastic Search.

October 2018

Summer Internship on **Internet of Things and Smart Devices**, Bangalore

May-Jun 2015

Technology stack: Arduino, Mobile Apps, Raspberry Pi, HTML, Javascript, jquery, CSS.

Installation of **Computers and Network** at Unnati, Bangalore

June 2014