Karthik Bhat A

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Education

R V College of Engineering　　　　　　　　　　　　　　　　　　*Bengaluru, India*

B.E. in Computer Science and Engineering　　　　　　　　　　　*August 2015 - PRESENT*

GPA: **9.36**

Experience

Soroco India Private Limited　　　　　　　　　　　　　　　　　*Bengaluru, India*

Software Engineering Intern　　　　　　　　　　　　　　　　　　*June-July 2018*

- Worked on Automated Process Discovery and Sequence Analysis

Projects

SSL integration with Ostinato　　　　　　　　*Citrix R & D Bengaluru with RVCE CSE*

Team of 2　　　　　　　　　　　　　　　　　　　　　　　　*June-July 2017*

- Added SSL/TLS protocol option into Ostinato.
- Captured packets of SSL sessions can be imported, fields can be edited and forwarded.

Exploring Citrix Netscaler supported protocols using Scapy library　*Citrix R & D Bengaluru with RVCE CSE*

Team of 2　　　　　　　　　　　　　　　　　　　　　　　　*Ongoing*

- Built server and client modules for FTP and TFTP protocols using Python Scapy.
- Learned packet sniffing, packet analysis with Scapy.

Reliability testing of Raspberry Pi Camera　　　　　　*TE Connectivity with RVCE*

Individual project　　　　　　　　　　　　　　　　　　　　*Jan-March 2018*

- Collected the data on the performance of Raspberry Pi Camera module on continuous usage.
- Analysed performance on varying requirements like picture resolution, clicks per minute etc.
- Studied about the feasibility of usage of Raspberry Pi in Camera module for commercial applications and presented the results.

Business Metric Dashboard　　　　　　　　　　　*IBM Remote Mentoring Program*

Team of 2　　　　　　　　　　　　　　　　　　　　　　　　*Jan.-Apr. 2017*

- Built a Web application to manage Business metrics.
- Designed server side of the application with NodeJS and client side with AngularJS.
- Learnt about the vulnerabilities in Web Applications and measures to prevent them.

Smart Notice Board　　　　　　　　　　　　　　　　　　　　*RVCE*

Team of 4　　　　　　　　　　　　　　　　　　　　　　　　*Aug.-Nov. 2017*

- Developed a low cost, user friendly digital notice board.
- Designed web portal to update notices using NodeJS, AngularJS and MySQL.
- Used Raspberry Pi as a client which downloads notices and display on the screen. It is scripted using Python.

Hobby projects

Individual projects

- Packet Sniffer: Using pcap to capture and analyse TCP and UDP packets. Written in C. (GitHub: packet-sniffer)
- OS Development: Creating x86 OS from scratch to learn boot sector, kernel, networking etc. (GitHub: os-dev, Ongoing)
- Bittorrent client: Writing Bittorrent client using Python to learn how bittorrent protocol works. (GitHub: bittorrent-protocol, Ongoing)

Publications

A Survey on SSL packet structure　　　　　　　　　*R V College of Engineering, Bengaluru*

Karthik Bhat A, Khamar Ali Shaikh, Minal Moharir　　　　　　　*Dec. 2017*

2nd IEEE International Conference on Computational Systems and Information Technology for Sustainable Solutions 2017

Technical Skills

Programming   C, Python, Javascript, Shell
Technologies   Git, Linux, Wireshark

Achievements

ISWEEEP International Science Fair   *Houston, Texas*
Won Bronze Award   *May 2012*
- Presented project titled "A Novel Anti-termite treatment and control using Schleichera Oleosa".

IRIS National Science Fair   *India*
Participation   *2011, 2012, 2013*
- Participated in IRIS national science fair for 3 consecutive years presenting 3 different projects.