

DEEPAK PRASHANTH PRASANAN

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OBJECTIVE: Seeking *Internship opportunity* starting May 2017.

ACADEMIC CREDENTIALS

Masters in Computer Science

Aug 2016 – May 2018 (*Expected*)

North Carolina State University, Raleigh, North Carolina

- Automated Learning & Data Analysis
- Foundations of Data Science
- Operating Systems Principles

Bachelor of Engineering (Hons.), Computer Science

GPA - 3.31/4

Aug 2010 – May 2014

Birla Institute of Technology and Science, Pilani, Rajasthan, India

TECHNICAL SKILLS

Programming C, C++, Java, Python, Bash, VBScript, Data structures & Algorithms (*Competitive Coding*) & Multi-threading.
ML Keras, R, OpenCV, SciPy,
Platform Linux/Unix, Microsoft Windows, Android.
Others MATLAB, Nmap, RabbitMQ, Perforce, GIT, Agile, Django.

PROFESSIONAL EXPERIENCE

Samsung Research & Development Institute India – Bangalore Pvt. Ltd.

Bangalore, India

Jul 2014 – Aug 2016

Senior Software Engineer

- Involved in research and development of wireless technologies as a member of the *android connectivity team*.
- Responsible for independent feature developments in Wi-Fi Direct and ASP protocol stacks on Android and Linux.
- Successfully delivered features like ASP and WSB protocol stacks verified at WFA Labs, San Jose, California.
- Felicitated with *Employee of Month* (Nov-2015) and *Spot awards* for exemplary contribution to the project and the team.

Central Electronics Engineering Research Institute (CSIR-CEERI)

Pilani, Rajasthan, India

Jan 2013 – May 2014

Research Intern

- Undertook projects in Machine Learning and Computer Vision domains, supervised by **Dr. Jagdish L Raheja**, CSIR Professor & Senior Principal Scientist at the *Machine Vision Lab*, Digital Systems Group at CEERI.

Symantec Software Solutions Pvt. Ltd.

Bangalore, India

Jul 2013 – Dec 2013

Software Developer Intern

- Designed and developed a seamless proximity-based hands-free authentication solution based on VIP (Symantec's 2-FA service) and Bluetooth across Android, Windows Phone and Windows PC platforms.

Birla Institute of Technology and Science, Pilani

Pilani, Rajasthan, India

Jan 2014 – May 2014

Teaching Assistant, Computer Networks (CS F303)

- Created course materials and oversaw the lab sessions. Instructor: **Dr. Rahul Banerjee**, Prof. Computer Science department.
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PUBLICATIONS

- **Harmonizing Wi-Fi and Wi-Fi Direct:** Designed and developed a *patent pending* energy efficient method allowing simultaneous discovery of Wi-Fi & Wi-Fi Direct devices, Samsung Best Paper Award, 2016. IEEE WCNC, San Francisco, 2017.
 - **Robust gesture recognition using Kinect:** A comparison between DTW and HMM, Optik, Elsevier May 11, 2015.
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PROJECTS

- **Image Classification using Deep Learning:** Utilized deep CNN technique for image classification on CIFAR-10 dataset.
 - **Operating System performance measurement:** Implemented benchmarking application in C on Linux platform. Provides accurate benchmarks for system calls, process creation & switching, memory access times & bandwidth, page fault service times and automatically generate graph for specified metrics.
 - **Gesture Recognition using Microsoft Kinect:** Designed & implemented real time gesture identification system using depth based camera (Kinect) utilizing Discrete Hidden Markov Models and Dynamic Time Warping. This solution was targeted at deaf people to detect sign languages in realtime.
 - **Computational Model for Aesthetic quality of web page:** Implemented a computational model based on supervised learning based classification algorithms, like Support Vector Machine and Random Forest, to judge the aesthetic appeal of a web page.
 - **Deployment of AnyLearn platform on internal cloud:** Part of the team that setup the AnyLearn platform (BITS Pilani's own internal MOOC) on the local cloud and integrated features like code evaluator and course grader into the platform.
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LEADERSHIP AND INVOLVEMENTS

- Mentored a group of 5 interns, from diverse backgrounds, who successfully presented their work to the Sr. VP of Samsung India.
 - Volunteer at Habitat for Humanity: Help with construction of houses at Lake Wheeler, Raleigh, North Carolina.
 - Member of the BITS-Pilani Chapter of ACM. Organized Barcamp and Ignite events at Apogee Tech fest, BITS Pilani
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