

DEEPAK PRASHANTH PRASANNNAN

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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

Aug 2010 – May 2014

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

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, based on the Wi-Fi Alliance specifications, verified at Plug Fests conducted at WFA Labs, San Jose, California. The solutions will be shipping on Samsung smartphones as a default feature.
- Felicited with *Employee of Month* (Nov-2015) and *Spot awards* for exemplary contribution to the project and the team.
- Achieved Advance competency in the worldwide Samsung Software Competency test.

Central Electronics Engineering Research Institute (CSIR-CEERI)

Pilani, Rajasthan, India

Aug 2012 – 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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TECHNICAL SKILLS

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

- Robust gesture recognition using Kinect:** A comparison between DTW and HMM, Optik - International Journal for Light and Electron Optics, Elsevier May 11, 2015.
 - Harmonizing Wi-Fi and Wi-Fi Direct:** Designed and developed a novel & energy efficient method to allow simultaneous discovery of Wi-Fi & Wi-Fi Direct devices, Samsung Best Paper Award, 2016. *Patent Pending*.
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PROJECTS

- Gesture Recognition using Microsoft Kinect**
Real time identification of gestures from depth based data from Kinect using Machine Learning concepts such as Discrete Hidden Markov Models and Dynamic Time Warping.
 - Person tracking through feature extraction**
Multiple subject tagging and tracking in a video stream that is invariant to motion blur, rotation or occlusion. Utilized feature descriptors such as HOG and SURF coupled with Compressive Tracking algorithm and a Naïve Bayesian Classifier.
 - Computational Model for Aesthetic quality of web page**
Implemented a computational model coupled with supervised learning based classification algorithms, like Support Vector Machine and Random Forest, to judge the aesthetic appeal of a web page.
 - 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.
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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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