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Bhaktipriya Shridhar

Education

- 2014–2018 **B.Tech(Honours) Computer Science and Engineering**, *Honours in Computer Vision*, Research Advisor: Prof. CV Jawahar, International Institute of Information Technology, Hyderabad CGPA: 9.62 /10.0.
- 2012–2014 **Senior Secondary Certificate** , Central Board of Secondary Education, Gulf Indian School, Fahaheel, Kuwait, 97.0%. Silver Medalist in the CBSE Gulf Region.
- 2012 **Higher Secondary Certificate** , Central Board of Secondary Education, Gulf Indian School, Fahaheel, Kuwait, CGPA: 10.0/10.0.

Achievements

Recipient of the Dean's academic awards for all semesters, IIIT, Hyderabad.

Poster Presenter, *R&D Showcase IIIT*, Hyderabad, Presented poster about First Person Vision.

Youngest Speaker at LinuxCon North America, Toronto, 2016, *The Linux Foundation*, Presented a [talk](#) about Async execution with Workqueues .

Speaker at The Grace Hopper Conference, India, 2016, *The Anita Borg Institute*, Presented a [talk](#) about Open Source Contributions.

Invited Speaker at The IEEE Women in Engineering International Leadership Conference (WIE ILC), San Jose, California, 2017, *IEEE*, [Member](#) of the panel titled: "Out in the Open: Social Innovation, Diversity and Open Source".

Outreachy Panel Member at LinuxCon North America, Toronto, 2016, *The Linux Foundation*, Encouraged like-minded women and other underrepresented groups to work on free and open source software projects via [Outreachy](#) .

Recipient of the The Linux Foundation Travel Grant, *The Linux Foundation*, Travel Scholarship from the Linux Foundation to present my talk, and participate in workshops at the LinuxCon North America in Toronto.

Recipient of The Grace Hopper Scholarship India 2016, *Anita Borg Institute*.

Team Ranked 46th globally in Women's cup , *Hackerrank*.

Qualified to attend the TEDx Youth Workshop, *TEDx Hyderabad*.

Recipient of the Pearl of the School Award, *Gulf Indian School, Kuwait*.

Nominated by the principal of the school

Courses and Certifications

- Academics Computer Vision, Statistical Methods in AI, Digital Image Processing, Graphics, Optimization Methods, Database Systems, Operating Systems, Computer Networks, Data Structures and Algorithms
- Certifications CompTIA+, Ethical Hacking, Linux Security, Technophilia Robotics Workshop

Experience

- Spring 2017 **Teaching Assistant**, *IIIT*, Hyderabad.
Teaching Assistant for the Sophomore core course Digital Signal Analysis and Applications. Involves grading, making problem sets and, taking lectures.
- Summer 2016 **STEP Intern**, *Google*, Hyderabad.
Worked on building an Internal Google app for the "Google Apps for Work" Team to understand policy framework features of one the core APIs that powers the GSuite.
- Summer 2016 **Outreachy Intern**, *Linux Kernel*, The Linux Foundation.
One among the 5 Outreachy Interns in the world to intern for Round 12 of the Linux Kernel. Worked on Updating Legacy Workqueue Creation interface users.
- Summer 2015 **Information Technology Service Desk Intern**, *Kuwait Oil Company*, Kuwait.
Worked with the Security and Audit Team, Mail and Server Team

Projects

- **Egocentric Sign Language(ISL) Recognition:** ISL Recognition in the Egocentric Paradigm. Used Attention based Sequence to Sequence Networks that learns to translate video frames to finger spellings. *Honors project(II)*.
- **Camera Crown:** A smart helmet that uses Egocentric Vision to assist persons with disabilities through a Smartphone, RPi module and RPi cameras. *Honors project(I)*.
- **Egocentric Gesture Recognition:** Hand Gesture recognition in Egocentric Videos that recognizes 7 static and dynamic gestures with 94% accuracy over 5 subjects. Uses Dense Trajectories & Hand Segmentation. *Honors project(I)*.
- **Dense Optical Flow Prediction:** Used CNNs to implement a Domain Independent module that predicts Dense Optical Flow from static images. *Statistical Methods in AI project*.
- **Double Paned Reflection Removal:** Reflection Removal from images taken through double paned glass windows using Ghosting cues and Patch Priors. *Digital Image Processing project*.
- **Adversarial Video Generation:** Multiscale Video Prediction using Generative Adversarial Networks to predict future frames of the Ms Pac-Man Game. *Computer Vision project*.
- **Deep Atari:** 1 step Deep Q learning to play Atari Games in the Open AI gym.
- **Shakespeare Bot:** Used Multi-layer Recurrent Neural Networks (LSTMs) and Text Embeddings for generating Shakespearean text.
- **Blues Composer:** Used Restricted Boltzmann Machines, Gibbs Samplings and Popular Blues Music to generate original blues tunes.

Technical Skills

- OS Windows, GNU/Linux
- Languages C, C++, Python, Java, Matlab, Bash
- APIs Tensorflow, Caffe, Keras, Torch, OpenCV, POSIX, CUDA