







Jyotish P

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EDUCATION

IIIT HYDERABAD

B.TECH. (H) + M.S. BY RESEARCH
 in ECE with specialization in Robotics
 Expected Graduation: 2020

COURSEWORK

Distributed Systems* • OS and Algorithms* • Principles of Information Security • Programming Workshop • Statistical Methods in AI • Computer Vision • Communication Networks • Mobile Robotics • Advances in Robotics

POSITIONS

CLUB COORDINATOR, 2017-2018

Photography Club, IIIT Hyderabad

SYSTEMS ADMINISTRATOR

Felicity 2018

PHOTOGRAPHER, 2016-2017

Media Team, IIIT Hyderabad

SKILLS

PROGRAMMING/SCRIPTING

Regular:

C • C++ • CSS • JS • Matlab • PHP

Python • Shell

Familiar:

Go • Lua • MySQL • Ruby

LIBRARIES/FRAMEWORKS

Robotics:

Gazebo • OpenCV • ROS • Unreal Engine

Web:

AngularJS • Django • Flask • Laravel

nodeJS • Rails

Machine Learning:

PyTorch • Tensorflow • Torch

SYSTEMS

Nginx • Apache2 • LDAP • Postfix

Dovecot • Nagios • Icinga • Bind • Slurm

Docker • Libvirt • OpenVZ • Wazuh

Snort • Squid • iptables

OPERATING SYSTEMS

Linux • Windows

EXPERIENCE

IIIT HYDERABAD | STUDENT SYSTEMS ADMINISTRATOR

Expected May 2017 – Jun 2020 | Hyderabad, IN

- Responsible for maintenance and deployment of institute-wide infrastructure and services (Squid, LDAP, Email, lists, NS, CAS, PXE, etc), 802.1x over network, routing and firewall configuration serving ~3000 users.
- Automated server configuration for institute's **reverse proxy** server that serves over 150 domains.
- Automated one of the **mail server migration** to Google Suite.
- Deployed **transparent proxy** with SSL interception using **SNI parsing**.

ROBOTICS RESEARCH CENTRE | SYSTEMS ADMINISTRATOR

Expected Mar 2018 – Jun 2020 | Hyderabad, IN

- Responsible for the maintenance and deployment of centre's high performance cluster and various services (Monitoring, NS, LDAP, Git, etc) of the centre.

RESEARCH

PROBABILISTIC NAVIGATION UNDER NON-PARAMETRIC UNCERTAINTY

Under the guidance of Prof. K. Madhava Krishna

- Characterize bot and obstacle as noise samples from a distribution.
- Moment matching of distributions in Hilbert space.
- Efficient implementation using reduced sets.

PROJECTS

UNROLLING THE SHUTTER

- A Convolutional Neural Network that corrects the distortion caused due to rolling shutter of the camera from a single image.

NEURAL CAPTIONING

- A combination of a CNN and an LSTM networks that gives a caption for the input image.
- Different versions of the network by tweaking LSTM
 - Traditional LSTM • With attention • With sentinel gate.

GUEST ACCOUNTS MANAGEMENT

- Portal for automation of adding guests to institute's central LDAP, restrict the logins of these users only to access institute network and automation of account deletion from LDAP.

PEER TO PEER FILE SYNCER

- A dropbox like file syncer.

ACCOUNTS MANAGEMENT PORTAL(In Progress)

- A central portal to manage and review account details, logs, etc., for IIIT Hyderabad (inspired from accounts.google.com).