






# SriSai Naga 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  
 Cumulative GPA: 7.71/10

## 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

May 2017 – Present | 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

Mar 2018 – Present | 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

- Characterizing bot, obstacle as noise samples from a non parametric distribution.
- Moment matching of distributions using Reproducing kernel Hilbert space.
- Efficient implementation using reduced sets.

## PROJECTS

### NEURAL CAPTIONING

ML | CV | NLP | Python | Tensorflow

- 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.

### INTERNET RELAY CHAT (IRC)

Distributed Systems | Socket Programming | C++

- A simple implementation of IRC client-server in C++.
- Supports multiple chatrooms with multi-threaded backend.

### UNROLLING THE SHUTTER

ML | CV | Python | Tensorflow

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

### GUEST ACCOUNTS MANAGEMENT

Python | Django

- 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

Python

### ACCOUNTS MANAGEMENT PORTAL

Django | Python

### AUTONOMOUS NAVIGATION OF QUADROTORS

ROS | C++ | Python