

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
Statistical Methods in AI
Computer Vision
Communication Networks
Mobile 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.

SELECTED PROJECTS

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.

GUEST ACCOUNTS MANAGEMENT

Python | Django

- Portal for automation of adding guests to institute's 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

- P2P file syncing application that tries to mimic Dropbox file syncing mechanism using UDP and TCP.

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.

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.

ACCOUNTS MANAGEMENT PORTAL

Django | Python

AUTONOMOUS NAVIGATION OF QUADROTORS

ROS | C++ | Python

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.
- Co-authored a paper submitted to ICRA 2019 (under review).