

SriSai Naga Jyotish P

📧/jyotishp | in/jyotishp | 🌐jyotishp.ml | ✉hypothesis1996@gmail.com | ☎+919908974035

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
Operating Systems and Algorithms
Principles of Information Security
Statistical Methods in AI
Computer Vision
Communication Networks
Mobile Robotics
Advances in Robotics

SKILLS

Advanced:

Linux System Administration • Python
Shell • MATLAB • Django • Laravel

Intermediate:

Docker • Libvirt • OpenVZ • LDAP
EMail Suites • Monitoring • C/C++
Go • JS • Java • Ruby • PHP • nodeJS
Slurm • Networking • ROS • Gazebo
Computer Vision • Machine Learning
Windows Administration

Familiar:

Lua • Unreal Engine • Rust

MISC

Invited to Dean's Dinner 2017-18
Club Coordinator, Photography, IIIT-H
Systems Administrator, Felicity '18
Photographer, Media Team '17, IIIT-H

EXPERIENCE

SYSTEMS ADMINISTRATOR | IIIT HYDERABAD

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.
- Available 24/7 on-call for all incident response and remediation.
- 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**.

SYSTEMS ADMINISTRATOR | ROBOTICS RESEARCH CENTRE

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.
- Also tasked with managing the lab's website.

SELECTED PROJECTS

CHORD DHT

Distributed Systems | Go

Distributed hash table implementation, written in Go, using Chord protocol to download and upload files from a cluster.

INTERNET RELAY CHAT (IRC)

Distributed Systems | Socket Programming | C++

Simple client-server implementation of IRC with multi-threading in C++.

HTTP PROXY SERVER

Socket Programming | Python

A multi-threaded HTTP proxy server with basic caching support.

GUEST ACCOUNTS MANAGEMENT

Django | Python

Portal for managing accounts for guests (visiting IIIT Hyderabad) in LDAP with auto-deletion and access restrictions.

PEER TO PEER FILE SYNCER

Socket Programming | Python

P2P file syncing application

NEURAL CAPTIONING

ML | CV | NLP | Tensorflow | Python

End-to-end attention based neural network for captioning images.

UNROLLING THE SHUTTER

ML | CV | Tensorflow | Python

A CNN that corrects the distortion caused due to rolling shutter of the camera from a single image.

IMAGE EDITOR

Image Processing | Python

Image editor that uses Poisson differential equations for solving image blending, cloning, etc.,

RESEARCH

PROBABILISTIC NAVIGATION UNDER NON-PARAMETRIC UNCERTAINTY

Under the guidance of Prof. K. Madhava Krishna

- Sampling from a non parametric distribution.
- Moment matching of distributions in RKHS using reduced sets.
- Co-authored a paper submitted to ICRA 2019 (under review).