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
Expected 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
Expected 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