Sree Latha Chopparapu

📞 +1 510 714 7721 @ sreelathamailbox@gmail.com

Experience

SENIOR SOFTWARE ENGINEER
Connected car Application Development, Danlaw Inc

📅 April 2022 – Aug 2022 📍 Bengaluru, India

- Base lining the V2X base development software for safety applications.
- Design improvements and development of existing Audio manager for V2X product.
- software design and development of environment perception module (EPM)

SOFTWARE ENGINEER
Connected car Application Development, Danlaw Inc

📅 June 2018 – March 2022 📍 Bengaluru, India

- Design Improvements and development of threat arbitrator and threat event-logging.
- Major responsibility in safety application development, integration and testing for DSRC and CV2X based OBUs. Working with algorithms, application, v2x stack and integration.
- Development of PEDINX application, improvements of Red-light violation application (RLVW) for vehicles.
- Software development and integration of Signal request transit application, pre-emption and Lane detection algorithms
- Design and Development of PCAP message parser module for WSMP messages using Python.
- CAN handling for Speed Estimator algorithm for safety Apps.
- Development and simulation of an x86 based Vehicle simulator tool for application debugging.

Other Projects

AI/ML/DL
MS NLP

📅 September 2022-Present 📍 Satna Clara, CA, USA

- **Deep learning and Machine learning algorithms**
- MLP, RNN based models for relation extraction, Entity tagging. LSTM based neural Language models.
- Explainable online sexism detection using Hierarchical multi class classification - a SemEval'23 task
- Object classification, detection using YOLOv3 and segmentation
- Customized data collection and annotation of different entities like Msand, bricks, Blocks etc, for a construction based object detection project

TEMPERATURE ESTIMATION USING KALMAN FILTER
Manipal Institute of technology

📅 August 2017 - April 2018 📍 Manipal, India

Design, simulation and implementation of a State Estimator using Kalman Filter for a Binary Distillation column to estimate the tray temperatures.

Publication

Design and Simulation of Kalman Filter for the Estimation of Tray Temperatures in a Binary Distillation Column

Education

M.S. NLP
University of California, Santa Cruz

📅 Sep 2022 - Present 📍 Silicon Valley, CA, USA

MTECH. CONTROL SYSTEMS
Manipal Institute of Technology, MIT
Overall CGPA: 8.3/10

📅 Aug2015 - May2017 📍 Manipal, India

BTECH. ELECTRONICS
JNTUA
Overall Percentage: 75.3

📅 Jun2010 - May2014 📍 Nellore, India

Links

- GitHub **sreelathagh**
- Linkedin **Sree Latha**

Coursework

GRADUATE
Machine learning Models
Advanced Deep Learning
Transformers
Natural Language Processing
Computer Vision
Learning through Case Studies

Skills

PROGRAMMING
Python • PyTorch • C • POSIX-IPC • OSAL • Multi-Threading/Processing • Data Structures and Algorithms

PROTOCOLS
DSRC/CV2X • SAE(-J2945, -J2735, -J2450) • CAPI-DBUS • ZMQ

MISCELLANEOUS
bash • Eclipse-IDE • JIRA • GIThub • DLT • GDB • cpp checksum

Honors

TEAM EXCELLENCE AWARD - GOLD
Danlaw Inc
Awarded to the V2X team, for a successful demo of V2X Apps for an Indian OEM customer

EXCELLENCE RECOGNITION
Danlaw Inc
Recognized for extended hours of working for NYC DOT customer