

Sree Latha Chopparapu

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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

INTERNATIONAL JOURNAL OF PURE AND APPLIED MATHEMATICS, VOLUME 114 No. 9 2017, 11-20, ISSN: 1311-8080

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 Satna Clara, 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

Programming for NLP models

Deep Learning

Learning Skills through Case Studies

Artificial Intelligence

Machine Learning

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