## Experience

**Technical Leader I**, Cisco Systems Oct 2021 – Present

Model Driven Telemetry and Manageability service **Technologies** – Python, C, Go

* Designing and implementing Manageability features to Manage, Operate the devices Securely using gRPC technologies like gNMI, gNOI and gNSI.

**Senior Software Engineer**, Cisco Systems Sep 2019 – Jan 2022

* Designed and implemented support Secure ZTP (RFC 8572) and a compliant server.
* Defined workflows for Ownership Voucher (OV) (RFC 8366) Generation and Distribution.
* Major contributor in Design of Manufacturer Authorized Signing Authority to generate OVs

**Software Engineer III**, Cisco Systems Jun 2015 – Sep 2019

Zero Touch Provisioning **Technologies** – Python, bash, Docker

* Re-engineered the existing infrastructure, which increase the provisioning speed by 30%.
* Helped increase the feature velocity for that component with code and state coverage of ~80%, reducing the operational costs by 10-fold for the customers.

SPNAC **Technologies** – *Go, InfluxDB, Kapacitor, Docker*

* Closed-loop Network automation using telemetry data from switches/routers.
* A network health monitoring app with auto remediation.

Telemetry **Technologies** – *C, Python.*

* Designed and implemented infra and backend for event/data collection on Nexus devices.

**Java Developer**, Kavi Associates Jun 2013 – Jun 2015

Locomotive Road Failure Prediction **Technologies** – *Cloudera, SpringMVC, Hibernate, Spark, SAS*

* Implemented streaming service to gather real-time data from various locomotive sensors and streamed them to HDFS.

Pretium **Technologies** - *Java, Python, Scala, Spring MVC, Ajax, Hibernate., HighCharts.*

* Implemented a code generator for data collection, cleaning, integration, ETL and data viz.

**Full-Stack Developer**, XL Academics **Technologies** - *php, mysql, amcharts* Feb 2012 – May 2013

* Implemented chat, financial manager and spend analyzer like Mint.com for FMHS users.

**Education**

* M.S in Computer Science - **Northern Illinois University** (GPA – 4.0/4.0) May 2013
* Bachelor of Engineering - **JNTU Kakinada**, **India** (GPA – 3.6/4.0) April 2011

## Technical Skills

* Languages: C, Go, python, Objective-C, SQL
* Databases: MySQL, PostgreSQL, InfluxDB, Prometheus.

## Certifications

* Deep Learning Nano Degree Foundation Program
* Cloudera Certified Administrator for Apache Hadoop (CCAH)

## Side Projects

* OpenCV: Face recognition, Emotion recognition, Object tracking, Motion detector.
* [Digital augmentation](https://www.youtube.com/watch?v=1A80HsRYXVk)(image overlay) of image/videos on a paper, placed in front of a camera.
* Deep learning: [Image Classification](https://github.com/naren-m/ImageClassification), [Face Generator](https://github.com/naren-m/FaceGenerator), [Language Translation](https://github.com/naren-m/LanguageTranslation), [TV Script Generation](https://github.com/naren-m/TvScriptGeneration), Image styling
* [Tekken-py](https://github.com/naren-m/tekken-py): Python playing [Tekken 7](https://www.youtube.com/watch?v=YAguiUPNKoc&feature=youtu.be).