## Experience

**Software Engineer III**, Cisco Systems Jun 2015 – Present

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

* Automates the process of provisioning the routers with Day 0 configurations, reducing the operational costs.

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 data collection and aggregations tools 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 rule engine to define data preprocessing, cleaning rules.
* Automated data collection, cleaning, integration, ETL and visualizations by auto generating scripts from a predefined set of rules.

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

* Implemented messaging system, financial manager and spend analyzer to allow users to create budget, create savings goals, track expenses and visualizations.

**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, Java, Objective-C, SQL, PHP, JQuery
* Databases: MySQL, PostgreSQL, InfluxDB, Prometheus.
* ML/ DL Frameworks: Tensorflow, tflearn, keras, scikit-learn.
* Key Areas: Data Structures and Algorithms, Linux, Neural Networks, Deep Learning
* Cloud Technologies: Docker, AWS(EC2), Google cloud platform.

## 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 colored 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
* [System-usage-monitor](https://github.com/naren-m/System-usage-monitor): monitor system usage with InfluxDB, Grafana, Kapacitor, Telegraf.
* Home assistant to automate daily tasks, finance manager and control smart devices (Hue, Wemo).
* [Tekken-py](https://github.com/naren-m/tekken-py): Python playing [Tekken 7](https://www.youtube.com/watch?v=YAguiUPNKoc&feature=youtu.be).