Gangadhar Korrapati, *Software Developer*

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EXPERIANCE

Jul 2019 - Nov 2020

Software Developer
Back-end, TCS Yantra Park (Thane, Mumbai)

Work: Developer in CVP(connected vehicles program) for FCA(Fiat Chrysler Automobiles) in V2X(vehicle to everyting) technologies.

Parsed high velocity sensor data streams from TBM(Telematic Box Module) in FCA vehicles to generate VHRs(vehicle health reports)
- Developed parsing logic for sensor data from gyroscope, GPS, odometer, vehicle status indicators etc and generalized logic for VHR reports for several vehicle kinds(GAS,Electric,Hybrids) based on inputs from field and automotive engineers in FCA using java and spring boot.
- Developed notification services to push VHR to android and ios apps using AWS SNS,AWS lambda and nodejs.
- Was granted complete product ownership for development of parsing algorithm and generation of VHR for after market vehicles by streaming sensor data from ODB2(On Board Diagnostics) Interface. used AWS Kinesis, AWS SQS, AWS Lambda, S3, Dynamo DB services for this solution.

proposed and executed solutions for Legacy systems migration
- Containarized and migrated few brown field VHR services for old vehicles in EMEA region to AWS cloud using docker.
- Developed a mutual authentication solution in java using bouncycastle library to enable APIs on AWS cloud to comunicate with manufacturing plant mainframes. Of several proposed Only solution that got approved by FCA infosec team for mainframe and Cloud communication.
- Migrated legacy system users from salesforce IAM to AWS IAM with GDPR compliance.

Service Certificate

Jan 2019 - Apr 2019

Intern
DevOps, TCS Synergy Park (Hyderabad)

Work: Containarize and Orchestrate Big Data Solutions, ML Models Deployment- Release Pipeline Automation for Big Data, Data Science Solutions
- dockerized builds for several TCS internal data Science tools
- developed scripts for jenkins CI/CD pipelines to deploy dockerized solutions to Amazon Elastic Container Registry

Internship Certificate

EDUCATION

Jul 2015 - May 2019

B.Tech, Computer Science and Engineering
SASTRA University (Thanjavur)

Project: Cloud Based Big Data Solutions for Autonomous Vehicles and Advanced Driver Assistant Systems
- Autonomous vehilcle data of several hundred GBs in Rosbag and MDF4(Measurement data Format) formats is parsed in Hadoop cluster using pyspark
- lidar data from rosbags is converted into pointclouds using point cloud library, data from cameras is converted to videos using ffmpeg and gps data is plotted on google map for visualization

College activities
- Headed development efforts for Connected Canopy a project for Introduction to Entrepreneurship course taught by Wadhwani Foundation
- By end of the course our team was selected as one of top 3 startup ideas by Technology Business Incubator at SASTRA University.
- Selected for Dean's merit list for accedemic year 2018-2019

Certificates
- Introduction to self Driving Cars by University of Toronto, Coursera
- Freecodecamp front end certification
- web development certification udemy
- cryptography certification from cybraby with Number SC-471a1d783-90916

GATE Rank: 3044
CGPA: 7.86

SKILLS

Programming Languages:
- JavaScript & TypeScript
- Java
- Python

Databases:
- PostgreSQL
- Redis

Data analysis:
- pandas
- SciPy & Numpy
- Apache Zeppelin & Pyspark
- Jupyter notebook & Matplotlib

Web and REST API Frameworks:
- Nodejs & Express.js
- Django & Flask
- Spring boot
- OpenAPI & Swagger

DevOps:
- Git & Github
- Nginx
- Docker
- Jenkins

Cloud:
- AWS
- Digital Ocean
- Heroku