Yeshwanth Govindu

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LinkedIn | GitHub

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-- EDUCATION --

University of North Texas   *Denton, TX*

Master of Science, Computer Science   **Aug, 2023 – Present**

Coursework: *Software Engineering, Data Structures and Algorithms, Database Systems, Artificial Intelligence, Machine Learning, Big Data and Data Science, Natural Language Processing, Information Retrieval.*

-- TECHNICAL SKILLS --

- **Programming Languages**: *C++, Python(PyTorch), MatLab*
- **Testing & Validation**: *Unit Testing, B2B Testing, Functional testing, SIL, HIL.*
- **Powertrain & Embedded Systems** : *Powertrain Control Systems, CPC, Model-Based Development (MBD)*
- **Tools & Configuration Management:** *DOORS, PTC Integrity*
- **Automation :** *CANoe, CANalyzer, Simulink*
- **AUTOSAR, ADAS/AD :** *ACC, AEB, LDW, LDA, Parking Assist, TSR, LKA .*
- **Sensors:** *RADAR, LiDAR, Camera*
- **Industry Standards** : *ISO 26262, MISRA C/C++*
- **Version Control** : *Git, GitHub*

-- WORK EXPERIENCE --

TATA ELXSI   *Bangalore, India*

 Software Engineer (Model Based Development) - (2 years)   **Aug, 2021 – July, 2023**

- *Developed monitoring functions for the Central Powertrain Controller (CPC) using MATLAB, Simulink ensuring compliance with system design.*
- *Interpreted system and software design requirements, translating them into efficient and optimized embedded software solutions.*
- *Collaborated with function developers and requirement engineers to clarify technical specifications, reducing misinterpretation errors by 30%.*
- *Implemented and tested software modules using unit testing, B2B testing, and functional testing, achieving a 20% improvement in software reliability.*
- *Supported function and system testing using HIL (Hardware-in-the-Loop) and vehicle-level validation, ensuring robust powertrain performance.*
- *Performed software debugging and optimization in Embedded C, enhancing computational efficiency by 15%.*
- *Managed software requirements and configuration using tools like DOORS, PTC Integrity improving documentation accuracy.*
- *Automated testing and validation workflows using Python, M-scripts, reducing manual testing effort by 25%.*
- *Contributed to the development various ADAS features by performing critical C-to-C++ conversions, debugging, and integration, which improved vehicle safety and navigation capabilities.*
- *Enhanced the HMI application development process for infotainment platforms, tackling feature enhancements and bug fixes to deliver a seamless user interface and improved system functionality.*
- *Collaborated across teams in Agile environments, participating in sprints, planning meetings, and reviews to ensure timely delivery of high-quality solutions.*

-- CERTIFICATIONS/ TRAINING --

DATA STRUCTURES and ALGORITHMS *(GOOGLE TECH DEV GUIDE): With this self-training, I familiarized myself with common DSA like Lists, Dictionaries, Stacks, Queues, Linked Lists, Hash tables, Big-O Analysis, Searching, Sorting.*

AWS CERTIFIED SOLUTIONS ARCHITECT *(AWS): I gained adequate knowledge and skills to provide solutions to complex problems, optimizing security, cost and performance and automating manual processes. Validity – (Jan'24 – Jan'27).*

--- ACADEMIC PROJECTS --

E-Commerce Customer Churn Prediction (Big Data and Data Science):

 Developed a system to predict customer churn using Hadoop for distributed big data processing and machine learning models for customer segmentation and churn prediction. This project demonstrates the ability to handle large datasets, filtering, performing clustered data processing, integrate machine learning algorithms, and optimize processing for real-time analysis.

 Tech Stack: *Hadoop(HDFS, MapReduce, Hive, Yarn), AWS(EMR, Glue, S3), Clustering, Regression, Spark.*