GANESH D

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WORK EXPERIENCE:

May 2021 – Present

Systems Engineer, TATA CONSULTANCY SERVICES (General Motors – GTO), BANGALORE, INDIA.

Proven experience as a System Engineer with 2 years and 8 months of experience in Software Development, understanding of Node JS, JavaScript, Database, SQL queries, OOPS Concepts, Familiarity with Agile frameworks, Repo maintenance in GitHub, ability to troubleshoot and resolve the errors.

DEVELOPMENT/DESIGN: Developed and Implemented Mobile App APIs as per Customer requirements, handled Multiple Database during development.

Developed and Implemented source code, collaborated with software engineering teams to identify and resolve software issues. Creating and Supporting CRUD Operations, maintaining Client Databases.

Created multiple PDFs or other documents with web content using EJS concept, Importing and Exporting documents like PDF, Excel, Generating QR codes and other file creation to meet customer requirements.

Collaborated with cross-functional teams to analyze and define system requirements. Designed and implemented complex systems architecture to meet specific project requirements.

Sending Emails and Text messaging to the end user using script and package manager, Middleware authentication for logging using JWT.

Managed and resolved technical issues and challenges throughout the systems development lifecycle. Developed and executed comprehensive test plans to ensure system functionality and performance.

Structuring databases to meet the customer requirements and implemented the same in APIs, provided technical support and troubleshooting expertise to resolve customer issues and inquiries.

Tools used - Verifying implemented APIs with POSTMAN, database administration through phpMyAdmin for MySQL, Architecture used – MVC.

Development Environments: **Node JS, Express JS, Typescript, EJS, MATLAB, Simulation, C, C++**

TESTING:

- Responsible for performing Model Based testing for different driver modes mainly focusing on electric propulsion and transmission systems.
- Software testing for Driver torque request components following agile model approach.
- Simulation Testing for driver torque request in a ring level with vehicle GUI by creating driver profile or script writing connecting with virtual controller through INCA.
- Practicing Functional level and System level testing adhering to Global testing standards.

Test Environments: **CppUTest, SIL Testing, Simulation, Behavioral Testing**

ACHIEVEMENTS:

- Automation tool to write Goal Description for Test group in CppUTest
- Published Continuous Improvement project in TCS on Tool Automation

TECHNICAL SKILLS:

Software(s):

Programming: NodeJS, Typescript, Express JS, EJS, C, C++, JAVA

Basics Knowledge: Angular JS, React JS

Database: MySQL, MongoDB

Operating systems: Windows, LINUX

Cloud: GIT, Gerrit – Artifactory

Tool: Postman, VS code, Eclipse, INCA v7,

EDUCATION:

B.E. Electronics and Communication Engineering, **(2015 - 2019)**
SKP ENGINEERING COLLEGE
CGPA 6.3
High School, **(2013 - 2015)**
JEEVA VELU HIGHER SECONDARY SCHOOL
Completed with a percentage of 70.75%

UNDER GRADUATE PROJECT DETAILS:

Final Year: Voice Controlled Bluetooth Car (prototype)

Description: Controlling the prototype car with voice through Bluetooth communication with automatic object detection. Detection will slow down the vehicle speed slowly and reducing sudden braking through early detection.

Third Year: Vehicle Control using Wifi (Won the first price in Project Expo event)

Description: Controlling a vehicle functionality using wifi with a certain range through an app. To automate the vehicle commands and reduce man power.

CORE COMPETENCIES:

Web Development, Rest API services, Back-end Development, MySQL, MongoDB, NoSql, CRUD Operation, OOPS Concepts, Familiarity with Agile frameworks, Repo maintenance in GitHub, ability to troubleshoot and resolve the errors.

OTHER EXPOSURES:

Automotive Protocols, Automotive technologies, Automotive Fault Diagnosis, Automotive SafetySystems, Advanced Driver Assistance System, Automotive Embedded Systems.

GITHUB REPO:

NodeJS_Sampe_Code   **Sampe_Embedded_C_Code**

(Ganesh D)