Sai Raman Gowthaman

Senior Software Engineer

Dynamic and results-oriented professional with expertise in C++, IoT, SDV, geo Fencing and automotive software development. Seeking to leverage proven track record of reducing costs, increasing efficiency, and delivering innovative solutions in automotive industries. Available Immediately for the role.

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WORK EXPERIENCE

Senior Software Engineer
Bosch Global Software Technologies

01/2023 - 06/2024   *Coimbatore*

Achievements/Tasks

- Developed a successful plugin with C++11 standard, adhering to COVESA Vehicle Signal Specification, facilitating seamless integration with automotive systems.
- Engineered an advanced plugin to foster enhanced interoperability, coupling it with multithreading capabilities.
- Developed C++11 plugins tailored specifically for middleware applications on embedded Linux platforms, all while adhering to stringent memory constraints.
- Implemented an OTA (Over-the-Air) Manager for SDV, streamlining software updates and reducing manual intervention.
- Successfully completed end-to-end testing for SDV applications, ensuring robustness and reliability in automotive systems.
- Led a successful demonstration to a customer delegation for electric bike , showcasing effective teamwork and project management skills.

Software Engineer
Bosch Global Software Technologies

09/2020 - 12/2022   *Coimbatore*

Achievements/Tasks

- Reduced operational costs through the implementation of optimized geofencing algorithms for agricultural use cases.
- Collaborated with diverse partners across global locations to tackle complex engineering challenges head-on, demonstrating adaptability and effective communication in navigating cross-cultural dynamics.
- Designed and implemented features to optimize crop management and yield.
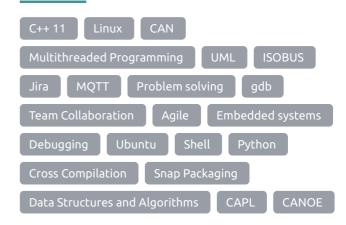- Increased efficiency by developing and deploying geofencing applications for precision agriculture.

EDUCATION

BE Electronics and Communication
PSG College of Technology

06/2016 - 05/2020   *8.05*

SKILLS

C++ 11   Linux   CAN

Multithreaded Programming   UML   ISOBUS

Jira   MQTT   Problem solving   gdb

Team Collaboration   Agile   Embedded systems

Debugging   Ubuntu   Shell   Python

Cross Compilation   Snap Packaging

Data Structures and Algorithms   CAPL   CANOE

PROJECTS

IOT Middleware Framwework (02/2023 - 06/2024)

- Developed a VSS Plugin with C++ 11 for SDV Applications , contributing to the enhancement of the embedded middleware framework's functionality for seamless integration with various systems.
- Designed and implemented CAN C++ Plugin for SDV, enabling efficient communication and data exchange between different components of the Automotive embedded system.

NEVONEX (09/2020 - 02/2023)

- Developed Geofencing applications for precision agriculture with C++ 11, enhancing location-based functionalities for optimized farming practices.
- Conducted numerous field trials to assess application performance and gather valuable insights for further refinement and improvement.

ACHEIVEMENTS

Received Bravo award from Bosch Global Software technologies for Contributing to NEVONEX Developer Conference in 2022.

Deputation for customer support in Stuttgart, Germany, providing timely and effective technical assistance to clients.

LANGUAGES

English
Native or Bilingual Proficiency

Tamil
Native or Bilingual Proficiency