RENESH NAIDU PARA

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OBJECTIVE

Seeking a challenging role in an organization that utilizes my expertise in C, C++, and Linux in Software development. With 6 years of experience in software development, system integration, and debugging, I am confident in my ability to contribute to the growth and success of the company. I am eager to apply my knowledge and skills to tackle new and complex projects and work as part of a team to deliver high-quality results.

Technical Skills

Languages: C, C++ (including C++11 and Embedded C++), Linux, Data Structures, Algorithms, STL, Debugging, Shell Scripting, Perl Scripting.

Cloud Technologies::Docker, Kubernetes (K8s), OpenShift, Elasticsearch, Fluentd, Kibana, Filebeat, YAML, Containers, Persistent Volume Claims (PVC).

Developer Tools: Visual Studio, Eclipse, Jenkins, GDB, JIRA.

Technologies:Git, SVN, Metrics Datastore, TCP/IP Socket Programming, Qt Framework (Qt Widgets, Qt Designer, QML).

Networking and Protocols:TCP/IP, HTTPS, Socket Programming, RESTful APIs, Secure Communication Protocols (e.g., SSL/TLS).

Debugging and Optimization:Multithreading, Performance Optimization, Debugging Tools (e.g., GDB), Memory Management, Code Quality Assurance.

Experience

IBM Labs **Bangalore**

Senior Software Engineer *Jan 2024 - Present*

Project: CICS TX

- Developed and maintained core components of the CICS TX product in C++.
- Enhanced performance and reliability of the transaction processing system.
- Implemented new features based on customer requirements and feedback.
- Collaborated with cross-functional teams to ensure seamless integration of new features.
- Conducted thorough code reviews and provided mentorship to junior developers.
- Utilized debugging tools and techniques to troubleshoot and resolve complex issues.
- Prepared and maintained technical documentation for internal and external use.
- Worked on transaction processing, performance optimization, and cross-functional collaboration to improve product functionality.
- Implemented a fully functional EFK (Elasticsearch, Fluentd, Kibana) stack for the CICS TX application.
- Worked with Docker, Kubernetes, and OpenShift to deploy and manage the EFK stack effectively.
- Integrated Filebeat as a sidecar container for efficient log forwarding, maintaining compatibility with existing Fluentd configurations.
- Developed Helm charts and YAML files for operators to simplify deployment and management of the CICS TX application.
- Configured Persistent Volume Claims (PVC) for reliable data storage in cloud environments, ensuring durability and high availability of transaction logs and application data.
- Leveraged performance monitoring and optimization tools within CICS TX to maintain efficient transaction processing.
- Skills: C++, CICS TX, Transaction Processing, Debugging, Performance Optimization, Cross-functional Collaboration, Docker, Kubernetes, OpenShift, Elasticsearch, Fluentd, Kibana, Filebeat, Helm, YAML, Persistent Volume Claims (PVC), Cloud Platforms.

OpenText **Bangalore**

Senior Software Engineer *Dec 2021 - Dec 2023*

Project: Operations Agent.

- Served as a centralized solution for monitoring system health, performance, and resource utilization across diverse environments.
- Integrated seamlessly with Operations Bridge Manager (OBM), Performance Manager, and Performance Dashboard to provide end-to-end monitoring capabilities for business applications, infrastructure, and workloads.

- Utilized an embedded data collector to continuously gather performance and health metrics, storing this data in the Metrics Datastore for future analysis and reporting.
- Aggregated and consolidated events and performance data from multiple, heterogeneous sources into a single view for easier management.
- Identified performance issues on the fly and provided real-time diagnostic capabilities to quickly resolve issues.
- Operations agent fully developed in C and C++.
- Actively participated in sprint planning meetings, estimating the scope and time required for each development task to meet project milestones.
- Implemented key functionalities, such as the embedded data collector and integration modules, adhering to best coding practices and software design patterns.
- Conducted rigorous unit and integration tests to ensure the reliability and robustness of the Operations Agent, identifying and fixing bugs to meet quality standards.
- Authored comprehensive documentation including user manuals, API guides, and inline code comments to facilitate future maintenance and enhancements.
- Handled customer issues efficiently by identifying root causes and providing hotfixes, while liaising with the support team to improve the overall customer experience.
- Skills: C++, Linux, STL, Algorithms, JIRA, Shell Scripting, JSON, GDB, Perl scripting, Multithreading Debugging, Visual Studio, Debugging.

Eximius Design **Bangalore**

Software Engineer *Oct 2020 - Nov 2021*

Project: Camera.

- This Project comprises of 4 modules used by VCC for their autonomous driving use case. This project is a virtual sub-element and is only used for combining all device drivers sub-elements into a single sub element representation and as such there are no security or safety impact on this project. The modules are AR0820/MAX9295A as the Front Looking Camera (FLC), IMX390/MAX96717f as the Surround Recognition System(SRS), OV2311/MAX96717f as the Driver Monitoring System and the MAX96712 Deserializer. Each module has corresponding set of device drivers that can be used by the application to use the sensor modules.
- Collaborating with the team during daily stand-up meetings to discuss progress and address any blockers.
- Reviewing and refining module requirements and specifications.
- Developing, testing, and debugging device driver code for various modules.
- Conducting code reviews for peers to ensure best practices and optimal performance.
- Documenting code, workflows, and any potential issues for future reference.
- Utilizing Visual Studio and JIRA for code development and bug tracking respectively.
- Skills: Embedded C, C++, STL, Algorithms, Device Drivers, Linux, I2C, Data structures, Debugging, Visual Studio, JIRA Debugging.

Matrix Comsec **Vadodara**

Software Developer *Dec 2018 - Jan 2020*

Project: Software Developer.

- Matrix COSEC DOOR FOP is an advanced door access control system that features a 128*64 Dot Matrix Display and touch sense keypad. It is designed for various applications such as Access Control, Time-Attendance, and Visitor Management.
- The device is capable of storing up to 9,600 fingerprint templates and 5,00,000 events, making it a scalable and versatile solution for access control.
- The system is designed with modularity and performance in mind, leveraging socket communications using TCP/IP protocols for robust and secure access control functionalities.
- Focused on enhancing the product's modularity and performance by implementing socket communications using TCP/IP protocols, which played a crucial role in the device's functionality.
- Implemented socket communications using TCP/IP protocols to enable robust and secure access control functionalities in the Matrix COSEC DOOR FOP device.
- Worked on enhancing the user interface, focusing on navigation and display elements, to improve overall user experience on the 128*64 Dot Matrix Display with touch sense keypad.
- Actively participated in daily stand-up meetings, providing updates on the TCP/IP socket implementation and discussing potential challenges and solutions.
- Contributed to sprint planning by estimating the time and effort required for socket communications tasks, helping the team prioritize the backlog.
- Regularly collaborated with QA engineers to ensure the reliability of the socket communications, adhering to code quality and security standards.

- Participated in code reviews to maintain a high standard of code quality, particularly focusing on the socket communications part of the project.
- Utilized JIRA for task tracking and project management, specifically for user stories related to TCP/IP socket implementation and UI enhancements.
- Acted as the point person for all socket communication-related queries, offering technical guidance to junior developers and team members.
- Involved in writing comprehensive documentation related to socket communications and UI changes, facilitating easier maintenance and future enhancements.
- Participated in sprint retrospectives, providing valuable feedback and insights specifically related to the socket communications tasks, to improve future sprints.
- Skills: C, C++, STL, Algorithms, Socket Programming, TCP/IP, JIRA, firmware upgrade, Embedded Linux.

INTERNSHIP/TRAINING'S

Diploma in Embedded systems from vector India. **April 2018 - Nov 2018**

- Trained Skills: C, C++, Embedded C, Microcontroller, Linux, TCP/IP, Python, Data structures, Socket Programming, C++, Qt Widgets, QML, Qt Designer.

Project1: Training on Cross-Platform GUI Development with Qt Framework

- Acquired skills in C++ and Qt for developing cross-platform graphical user interfaces.
- Gained hands-on experience with Qt Widgets, Qt Designer, and QML for creating dynamic and responsive UI designs.
- Learned to integrate Qt with backend components using signals and slots for event-driven programming.

Project2: Dynamic Dashboard for Sensor Data Visualization

- Designed and implemented a dashboard for real-time sensor data monitoring and analysis using the Qt framework.
- Developed a modular UI with features such as graph plotting, data tables, and error visualization.
- Implemented configurable alert thresholds for sensor parameters and integrated these with real-time notifications.
- Utilized multithreading to ensure smooth UI updates and asynchronous data processing.
- Focused on optimizing memory usage and performance for handling large datasets efficiently.
- Tested and deployed the application on Linux platforms.
- Skills: C++, Qt Widgets, QML, Qt Designer, Event-driven programming (Signals and Slots), Multithreading and data visualization, Performance optimization and debugging.

Education

K.S.R.M University **Kadapa**
Bachelor of Technology in Electrical and Electronic Engineering, 6.9/10 CGPA *2014 - 2018*

NRI JUNIOR COLLEGE **Tirupati**
INTERMEDIATE, Class XII, Chittoor District, 8.6/10 CGPA *2012 - 2014*

RAYALASEEMA CHILDREN'S ACADEMY **Punganur**
S.S.C, Class X, Punganur, Chittoor District, 8.2/10 CGPA *2012 - 2014*