Suryamani Kumar

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| github.com/Suryamani123

Experience

Senior Software Engineer   **MobileDrive Technology**, Bengaluru
Apr 2024 – Present

- Led development for Vehicle HAL using C++, CAN, SOME/IP; Developed communication channels between vehicle signals and Vera OS applications (Amazon-based OS).
- Migrated conventional socket implementation to SOME/IP based tcp wrapper for ethernet management protocol and optimised Date time management Systemd service responsible for maintaining consistent time across Guest and host OSs.
- Implemented CPU and memory monitoring and health alerts that helped reduce screen freeze and crash issues; handled production diagnostics .
- Mentored engineers, reviewed PRDs, and owned features through deployment that has resulted in reducing backlogs by 30%.

Software Engineer 1   **Harman International**, Bengaluru
Mar 2023 – Apr 2024

- Developed ISO-compliant diagnostics modules in C++ and Java for embedded systems.
- Built cross-platform CMake scripts for Linux and QNX builds.
- Used Data Structures & Algorithms and design patterns for efficient module design and testing.

Associate Software Engineer   **Harman International**, Bengaluru
Oct 2020 – Mar 2023

- Owned middleware metadata modules; developed message passing using SOME/IP.
- Refactored C++ components with unit tests and static analysis.
- Collaborated with cross-teams to resolve blockers in workshop/debug modes.

Software Engineering Intern   **Fungible Inc.**, Bengaluru
Jan 2020 – May 2020

- Built release milestone dashboard using Python, AngularJS, HTML/CSS/JS.
- Learned fundamentals of data-center architecture and storage.

Education

B.E. in Computer Science and Engineering   **BIT Mesra**
Jun 2020, CGPA: 7.98
Teaching Assistant: Introduction to Programming in C

Skills

Languages & Scripting: C++, Java, Python, JavaScript, HTML, CSS, Bash
Embedded & System Development: Embedded C++, Multithreading, Event-driven systems, Memory management, Diagnostics (ISO-compliant), IPC, Systemd services,Android Framework(Automotive), Cross-platform (QNX/Linux)
Build & Tools: CMake, Git, Gerrit, Jenkins, GDB, Static Analysis
Architecture & Design: OOP, Design Patterns (Factory, Singleton, Observer), DS & Algos, Middleware development, Fault tolerance, Refactoring
Methodologies: Agile, Scrum, CI/CD, PRD to production, Unit & Integration testing, Code reviews
Soft Skills: Team leadership, Mentorship, Technical planning, Cross-functional communication