

ANURAG YADAV

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WORK EXPERIENCE

Junior Software Engineer

June 2024 - Present

Company: Synergy Systems & Solutions

- Optimized event log retrieval for **400K+** records using hybrid pagination, reducing load time from **40s** to **4-6s**.
- Enhanced **IEC 60870-5-104** protocol implementation with **dynamic I/O point support**, eliminating manual configuration and **reducing integration time by 90%**.
- Developed high-performance data extraction module processing **500,000+** **daily records** from compressed files to database
- Fixed **30+** **critical bugs** across DCU's backend and client server modules, improving system reliability.
- Enhanced DCU configuration processing to resolve crashes and support files exceeding **600KB** in release mode.
- Implemented **MQTT protocol** with configurable JSON/XML data formats for seamless third-party integration.
- Developed a system management platform for Kernel and license updates with **role-based access control**.
- Developed an **HMI** for real-time monitoring of system events, faults, and device status, with support for remote device command execution.
- Implemented **TLS-based** authentication to secure MQTT and web client communications.

Tech stack: C++, C, Node.js, JavaScript, Vue.js, CSS, Linux.

Junior Software Engineer Intern

Jan - June 2024

Company: Synergy Systems & Solutions

- Created a **real-time device health monitoring system** that proactively **identified 85% potential failures** before they affected operations.
- Identified and resolved critical BCPMU software issue causing **60 second** halts in data requests to modules, significantly improving system reliability and ensuring consistent real-time data exchange

SKILLS

C++ | Java | C | Data Structures and Algorithms | JavaScript | Node.js | Vue.js |
MQTT | STL | TLS/SSL | Multi-Threading | WebSocket | SPI | GitHub | IPC |
Linux

EDUCATION

Guru Jambheshwar University of Science and Technology
Bachelor of Technology in Computer Science - CGPA - 7.4

2020 - 2024
Hisar, Haryana