Pallapothu Bhargav Ram

Software Engineer

9019154566 bhargavrampallapothu@gmail.com Pallapothu Bhargav Ram

Experience

Honeywell **Aug 2024 – Present**

Software Engineer I *Bangalore, Karnataka*

- Designed and implemented a smart detection algorithm to automatically identify pre-configured application templates, reducing engineering time by 60% and significantly accelerating application commissioning workflows.
- Developed expertise in both proprietary protocols like Sylk and open industry protocols Modbus, Bacnet enabling seamless interoperability across diverse building automation ecosystems.
- I led the design and development of a custom similarity search algorithm in Java that doesn't rely on AI/ML but still delivers high accuracy, optimized to run on low-resource controllers. This innovation significantly improved the intelligence and efficiency of our Tool.
- I currently own the Wall Module product, managing everything from initial requirements and design to development, testing, and delivery. I work closely with internal teams and stakeholders to ensure the product meets both technical and user expectations.
- Led the implementation of the 802.1x port-based authentication protocol project, enhancing network security.
- Directly interacted with customers to gather requirements and provide technical support, ensuring project success.
- Gained experience working in a Linux environment for development, deployment, and troubleshooting.
- Conducted proof of concepts to explore new technologies and drive innovation in the development process.
- Collaborated with cross-functional teams to improve software quality and accelerate project timelines.
- Created and maintained technical documentation for projects, promoting knowledge sharing within the team.
- Developing desktop applications using JavaScript, React within the Building Automation team.
- Performed integration testing of tools to ensure seamless functionality and reliability.
- Maintained and developed unit tests to verify code accuracy and performance, contributing to software stability.
- Worked with Atlassian tools for project management, issue tracking, and documentation.

Honeywell **Feb 2024 – July 2024**

Software Intern *Bangalore, Karnataka*

- Currently contributing to the development of a unified software tool for building automation controllers at Honeywell, demonstrating collaborative skills within a dynamic team environment.
- Implemented 802.1x protocol within building automation controllers.
- Collaborating closely with team members and management at Honeywell to integrate 802.1x protocol functionalities into the software tool, ensuring compliance with industry standards and enhancing network security measures.
- Configured and set up a RADIUS server for secure network access, enhancing device authentication and authorization.
- Demonstrating problem-solving skills by identifying and addressing technical challenges during the implementation phase, ensuring seamless integration and functionality of the 802.1x protocol within the controllers.
- Actively participating in team meetings, brainstorming sessions, and code reviews at Honeywell to foster innovation, share insights, and optimize project efficiency, showcasing strong teamwork and communication abilities.
- Engaging in continuous learning and professional development activities, including training sessions and workshops, to enhance technical skills and stay updated with industry trends and best practices.
- Leveraging strong analytical skills to analyse requirements, design solutions, and troubleshoot issues at Honeywell, ensuring the delivery of reliable and scalable software solutions tailored to meet client needs.

Education

Manipal Institute of Technology - CGPA : 8.65 **Oct 2020 – July 2024**

Bachelor of Technology in Electronics and Communication (Minor in VLSI) *Manipal,Karnataka*

Technical Skills

Languages: Java, JavaScript, Python, C
Framework: Niagara N4
OS: Linux, Windows