



Abdul Hathi

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Al Khalidya, Abu Dhabi UAE

SENIOR SOFTWARE ENGINEER

Seasoned Software Engineer with 5 years of expertise in IoT and Airlines development. Excels in crafting robust IoT applications and contributing to Java development in the Airlines domain. Proficient in Java, Spring Boot, J2EE, Angular, and databases like PostgreSQL and Oracle. Proven track record in AWS and Azure. Eager to bring this unique blend of skills and experience to a dynamic role, contributing to cutting-edge projects and advancing technological solutions.

KEY COMPETENCIES

Project Management
Team leadership
Communication

Data Structure and Algorithm
Scalability and Optimization
Data Visualization and Analysis

Software Development
Programming Languages
Code Review

PROFESSIONAL EXPERIENCE

SIBCA Electronic Equipment (Onsite) - Abu Dhabi, UAE

Sept 2022 - Present

Senior IoT Software Engineer

Led the development of a sophisticated IoT application, utilizing Java, Spring Boot, J2EE and Angular. Integrated diverse sensors and supported various gateway protocols, optimizing data flow for seamless communication. Ensured scalability by integrating with AWS and Azure cloud platforms, enhancing data visualization and analysis capabilities.

Accomplishments:

- Developed and led the implementation of an advanced IoT application, leveraging Java, Spring Boot and Angular for robust software architecture.
- Drove innovation as a Senior IoT Software Engineer, creating end-to-end solutions for diverse applications, including commercial buildings, home automation, fire and safety, and energy management.
- Developed a sophisticated IoT software platform with support for a wide range of protocols such as MQTT, HTTP, CoAP, RS232, BACnet, and Modbus.
- Orchestrated seamless integration of IoT solutions, enhancing connectivity and interoperability across different devices and systems.
- Contributed to the advancement of IoT technology, playing a key role in the development of intelligent systems for varied use cases.
- Collaborated with stakeholders to define project requirements, ensuring alignment with business objectives and end-user needs.
- Conducted thorough testing and quality assurance, guaranteeing the reliability and performance of the IoT software across multiple domains.
- Actively participated in the continuous improvement of IoT solutions, staying abreast of industry trends and emerging technologies.

Tata Consultancy Services (Onsite) - Chennai, India

May 2020 - Sept 2022

Full Stack Developer

Contributed as a Full Stack Developer in the airlines domain, enhancing and optimizing critical applications for airline operations. Played a key role in data processing and analysis, maintaining high standards for applications in the complex airline environment.

Accomplishments:

- Led the successful implementation of a travel management application for an Airline client, overseeing a team of software developers. The application significantly improved the efficiency of travel-related processes for both the airline and its customers.
- Implemented and championed Agile methodologies, particularly Scrum, to foster an iterative development process. This approach ensured continuous improvement and the deployment of the application with a 100% accuracy rate through Continuous Integration/Continuous Deployment (CI/CD) practices.
- Spearheaded the establishment of coding standards and methodologies to elevate the quality of the codebase. This initiative reduced debugging time, a critical factor in the fast-paced and high-stakes environment of the airline industry.
- Collaborated seamlessly with cross-functional teams, including UX designers and business analysts. This collaborative approach ensured the timely delivery of high-quality software aligned with the needs of the airline client and their customers.
- Worked on migration using the latest Angular and Java versions to reduce debugging time by 50% and increase performance by 30%, a critical factor in delivering a smooth and efficient experience for end users.
- Managed the team's workload and provided mentorship and guidance to junior developers, ensuring that they had the support and resources necessary to succeed in their roles and contribute to the team's success.
- Conducted code reviews and ensured adherence to coding standards and methodologies, which helped to maintain the quality and consistency of the application and reduce the risk of errors or bugs.

Key Achievements

- Successfully led the development of an advanced IoT platform with specialized features for data analysis and visualization.
- Integrated and supported a wide range of sensors, enhancing the application's versatility for various IoT deployments.
- Ensured scalability and optimized data management by integrating with AWS and Azure cloud platforms.
- Successfully removed all identified vulnerabilities, significantly fortifying the application against potential security threats and ensuring the integrity of sensitive data.

EDUCATION

Anna University, Chennai, India

70%

Bachelor of Engineering in Computer Science

2016 - 2020

PROJECTS

Project Title: Sibca Connect IoT Platform

Role: Senior IoT Software Engineer

Project Overview:

Developed an IoT application using Java, Spring Boot, Angular, JavaScript, Kafka, and MQTT. The project aimed to process data with diverse integrations like MQTT, Modbus, BACnet, and Zigbee, providing data visualization and monitoring capabilities for applications such as commercial buildings, home automation, fire and safety, and energy management.

Key Contributions:

End-to-End IoT Solutions:

- Spearheaded the development of comprehensive end-to-end IoT solutions, focusing on a robust software architecture.
- Oversaw the entire project lifecycle, ensuring seamless integration and functionality across diverse applications.

Protocol Support:

- Engineered a sophisticated IoT software platform with extensive protocol support, including MQTT, Modbus, BACnet, and Zigbee.
- Provided a flexible and adaptable framework for integrating a variety of devices and protocols.

Integration and Connectivity:

- Orchestrated the seamless integration of IoT solutions, optimizing connectivity between devices and systems.
- Implemented standardized communication protocols, ensuring interoperability in a diverse IoT ecosystem.

Advancement of IoT Technology:

- Played a pivotal role in the development of intelligent systems, contributing innovative solutions to address various use cases.
- Stayed at the forefront of emerging technologies, incorporating advancements to enhance the platform's capabilities.

Collaboration and Stakeholder Management:

- Collaborated closely with stakeholders, conducting regular meetings to understand their needs and align project requirements with business objectives.
- Maintained open communication channels, fostering a collaborative environment for effective project execution.

Testing and Quality Assurance:

- Led comprehensive testing efforts to ensure the reliability, security, and optimal performance of the IoT platform.
- Implemented rigorous quality assurance practices, including functional, integration, and performance testing.

Continuous Improvement:

- Actively participated in continuous improvement initiatives, adapting the platform to industry trends and user feedback.
- Implemented updates and enhancements to address evolving requirements and maintain a competitive edge.

Technologies Used:

- **Programming Languages:** Java, Spring Boot, J2EE, Angular, JavaScript
- **Communication Protocols:** Kafka, MQTT, Modbus, BACnet, Zigbee
- **Databases:** PostgreSQL, Cassandra
- **Development Methodology:** Agile

Project Title: Travel Management System
Role: Full Stack Developer

Project Overview:

As a Full Stack Developer, I played a key role in developing a secure Airlines platform architecture. Leveraging Java, Spring Boot, J2EE, JMS, Oracle, MongoDB, Maven, and Angular, I contributed to a robust and secure software environment.

Key Contributions:

Robust Architecture:

- Designed a secure platform architecture using Java, Spring Boot, J2EE, JMS, Oracle, MongoDB, Maven, and Angular.
- Ensured the architecture's resilience and scalability for a high-performance Airlines platform.

Security Measures:

- Conducted a comprehensive analysis and removed security vulnerabilities, enhancing the platform's overall security posture.
- Implemented encryption and secure communication protocols to safeguard sensitive data.

Collaboration and Stakeholder Management:

- Collaborated closely with stakeholders to understand and align project requirements with business objectives.
- Facilitated regular communication channels to ensure transparency and meet client expectations.

Testing and Quality Assurance:

- Led testing efforts to ensure the reliability and performance of the platform.
- Implemented rigorous quality assurance practices, including automated testing, to maintain a stable software environment.

Continuous Improvement:

- Actively participated in continuous improvement initiatives, adapting the platform to evolving industry trends.
- Implemented updates and enhancements to stay current with technological advancements.

Technologies Used:

- **Programming Languages:** Java, Spring Boot, J2EE, JMS, Angular
- **Databases:** Oracle, MongoDB
- **Build Tool:** Maven
- **Server:** WebSphere
- **Development Methodology:** Agile

SKILLS

Backend: Java, Spring Boot, Microservices, Spring Framework, Core Java, Spring MVC, JDBC, J2EE, Hibernate, Kafka, Python, Django, Flask, NodeJS, Express.JS, RESTful API, Spring Security, JMS, Linux, Shell Scripting

Frontend: JavaScript, Angular, Typescript

Database: Oracle, MYSQL, MongoDB, PostgreSQL, Cassandra

Cloud: AWS, Azure

DevOps Tools: Docker, Jenkins, GIT, SVN, JIRA

Servers: JBOSS, WebSphere, WebLogic, Nginx, Tomcat

Testing Frameworks: Junit and Selenium

Project Management: Agile, Scrum, SDLC, Waterfall

CERTIFICATES

- Agile Foundation
- Master Microservices with Spring Boot and Spring Cloud
- Python Internship Certification

LANGUAGES

Full Professional Proficiency:

- English
- Hindi
- Malayalam

Native or Bilingual Proficiency:

- Tamil