

Abdul Hathi

Senior Software Engineer

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SUMMARY

Dynamic and driven Senior Software Engineer with extensive experience in the development of enterprise-level applications across IoT and Airlines industries. Adept at utilizing technologies like Java, Spring Boot, Kafka, and React to deliver scalable, real-time software solutions. Strong background in cloud-native development, containerization, and database management, including PostgreSQL and Cassandra. Passionate about creating innovative solutions that meet user needs while maintaining high standards of code quality, security, and performance.

SKILLS

Backend Development Java, Spring Boot, Spring, Python, Microservices, Kafka, JPA, Hibernate, J2EE

Frontend Development React.js, Angular, JavaScript, TypeScript

DevOps & Cloud AWS, Azure, Google Cloud Platform, Kubernetes, Docker

CI/CD & Automation Jenkins, Terraform, Ansible, Github, GitLab

Version Control Git, SVN

Database Oracle, PostgreSQL, MongoDB, MySQL, Cassandra

Tools & Frameworks Agile, Scrum, RESTful API, JMS, JUnit, Selenium

Languages English, Tamil, Hindi, Malayalam

EXPERIENCE

Senior Software Engineer

Sep '22 — Present

Omniconn Development and Innovation Technologies

Abu Dhabi, United Arab Emirates

- **IoT Platform Development:** Led the development of an advanced IoT platform, focusing on end-to-end solutions for data analysis, monitoring, and visualization.
- **Protocol Integration:** Integrated various communication protocols (e.g., MQTT, Modbus, BACnet, Zigbee) to ensure seamless connectivity across IoT devices and systems.
- **Cloud Integration:** Enhanced scalability by integrating the platform with **AWS** and **Azure** for optimized data management and improved performance.
- **Security Enhancements:** Implemented robust security measures, including vulnerability assessments, encryption protocols, and secure communication methods to protect sensitive data.
- **Stakeholder Collaboration:** Worked closely with stakeholders, conducting regular meetings to align project requirements with business goals and user needs.
- **Quality Assurance:** Led comprehensive testing efforts, including functional, integration, and performance testing to ensure the software's reliability and optimal performance.
- **Continuous Improvement:** Actively participated in continuous improvement initiatives, incorporating emerging technologies to enhance the platform's capabilities and user experience.
- **Cross-Functional Collaboration & Integration:** Collaborated with cross-functional teams, including developers and IoT specialists, to ensure seamless integration and operation across varied applications such as commercial buildings, home automation, fire safety, and energy management.

Full Stack Developer

May '20 — Sep '22

Tata consultancy services

Chennai, India

- **Full Stack Development:** Contributed to developing a secure travel management system for airlines, leveraging technologies like Java, Spring Boot, React.js, and Oracle DB.
- **Architecture Design:** Designed and implemented microservices-based architecture to enhance performance and scalability for critical airline applications.
- **Data Processing & Analysis:** Improved data processing efficiency through integration with JMS and real-time message handling using Kafka.
- **Security Measures:** Conducted security audits, identified vulnerabilities, and implemented encryption protocols to secure airline data.
- **Agile Practices:** Adopted Agile methodologies (Scrum), ensuring iterative development, continuous delivery, and rapid response to feedback.
- **Stakeholder Management:** Collaborated effectively with cross-functional teams to align the development process with client requirements and ensure timely delivery.
- **Code Optimization & Migration:** Spearheaded efforts to upgrade technology stacks to newer versions of Spring Boot and Java, reducing debugging time and improving system performance by

EDUCATION

Bachelor of Engineering in Computer Science, Anna University (GPA: 70%)

Jun '16 — Mar '20
Chennai, India

CERTIFICATIONS

Agile Scrum Foundation certification

Master Microservices with Spring Boot and Cloud

PROJECTS

IoT Platform Development & Automation, Omniconn Development and Innovation Technologies

- **End-to-End IoT Platform Development:** Designed and developed a comprehensive IoT platform using **Java**, **Spring Boot**, and **Kafka** to handle real-time data ingestion, processing, and analysis.
- **Automated Device Provisioning:** Developed automated provisioning and configuration processes for IoT devices using **AWS IoT Core**, enabling zero-touch deployment and improved efficiency.
- **Firmware CI/CD Pipelines:** Implemented CI/CD pipelines using **Jenkins** to build, test, and deploy firmware updates, ensuring consistent and secure updates across IoT devices.
- **Real-Time Monitoring & Alerting:** Integrated **Grafana** and **Prometheus** for real-time monitoring of device health, connectivity, and performance, with alerting mechanisms to notify operations teams of potential issues.

Real-Time Data Pipeline for Distributed Systems, Omniconn Development and Innovation Technologies

- **Real-Time Data Ingestion & Processing:** Developed a **real-time data pipeline** using **Kafka** to handle high-throughput data streams, enabling low-latency processing and improved scalability.
- **Big Data Integration with Hadoop:** Integrated the data pipeline with **Hadoop** for batch processing and large-scale data storage, ensuring efficient handling of structured and unstructured data.
- **Distributed Storage with Cassandra:** Implemented **Cassandra** as the distributed NoSQL database to manage the processed data, ensuring high availability, fault tolerance, and fast data retrieval.
- **Data Consistency & Reliability:** Designed the data architecture to maintain consistency and reliability, supporting diverse use cases such as predictive analytics, sensor data monitoring, and reporting.
- **Optimization for High Performance:** Applied performance tuning techniques across the pipeline to achieve optimal data flow, reduce latency, and ensure seamless integration with other services

Microservices-Based Airline Reservation System, Tata Consultancy Services

- **Microservices Architecture Migration:** Re-engineered the airline's monolithic reservation system into microservices, creating modular components for **booking**, **payments**, **notifications**, and **customer management** using **Spring Boot**.
- **Full Stack Application Development:** Developed backend services using **Java** and **Spring Boot**, while creating interactive front-end interfaces using **React.js** to enhance user experience.
- **Containerization & Deployment:** Used **Docker** to containerize microservices and deployed them on **Kubernetes** for better resource management, scalability, and performance.
- **Automated CI/CD Pipelines:** Set up CI/CD pipelines using **Jenkins** to automate building, testing, and deployment of microservices, enabling faster releases and continuous delivery.

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Valid Until: Oct 2026