

Md Saifi Hassan

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Portfolio: syedmdsaifihassan.github.io/portfolio/

PROFESSIONAL SUMMARY

Software Engineer with 4 years of experience building scalable full-stack applications and distributed systems using React, TypeScript, Java, Spring Boot, Golang, and Microservices architectures. Proven track record of delivering enterprise-grade platforms in the aviation and entertainment domains, including In-Flight Entertainment (IFE), OTT streaming, content management, and advertising solutions for global airlines. Experienced in designing RESTful APIs, cloud-native services, CI/CD automation, and high-performance user interfaces, with strong expertise in system design, software architecture, and engineering best practices. Adept at leading technical initiatives, driving code quality through reviews and mentorship, and collaborating across cross-functional teams to deliver reliable, scalable, and maintainable software products.

EDUCATION

Dr. A.P.J. Abdul Kalam Technical University

Bachelor of Technology, Computer Science

Jamia Millia Islamia

Diploma in Computer Engineering

Lucknow, India

2019 – 2022

Delhi, India

2016 – 2019

EXPERIENCE

Software Engineer III

Apr 2024 – Present

Thales, Noida

- Architected and delivered full-stack In-Flight Entertainment (IFE) platforms and onboard advertising solutions for Spirit Airlines, Delta Air Lines, Emirates, and Air India, focusing on scalability, reliability, and seamless content delivery.
- Led the architecture and development of a microservices-based content ingestion platform using Java, Spring Boot, and REST APIs, enabling rapid airline onboarding, independent service deployment, and enhanced system scalability and maintainability.
- Developed responsive React and TypeScript frontends optimized for low-powered seatback hardware and intermittent connectivity, improving passenger-facing UI performance by 30%.
- Engineered scalable Jenkins CI/CD workflows, cutting deployment time by 65% and enhancing build stability, release reliability, and deployment automation.
- Championed engineering best practices through rigorous code reviews and architecture design reviews, driving higher code quality, maintainability, and developer productivity across cross-functional teams.

Software Engineer II

Apr 2023 – Apr 2024

Thales, Noida

- Contributed to the IFE OTT platform across the full stack, developing Golang REST APIs alongside React/TypeScript frontend features.
- Established coding standards and led architectural governance initiatives through peer reviews, improving codebase maintainability by 40% and reducing technical debt.
- Collaborated in Agile/Scrum ceremonies including sprint planning, standups, and retrospectives within a distributed engineering team.

Software Engineer I

Aug 2022 – Apr 2023

Thales, Noida

- Built modular, reusable UI component libraries in React, TypeScript, and Storybook to standardize design patterns across IFE platforms.
- Championed test-driven development (TDD) practices using Jest and React Testing Library, driving a 75% reduction in production bug rates over subsequent quarters.
- Identified and resolved performance bottlenecks through profiling and targeted refactoring, reducing page load times by 30%.
- Partnered with UX designers to ensure pixel-accurate, accessible implementations across diverse screen sizes and hardware configurations.

Software Engineer Intern

Jan 2022 – Aug 2022

Guavus, Gurugram

- Automated build, release, and deployment workflows using Jenkins, reducing manual operational effort and improving deployment consistency across environments.
- Implemented PXE Boot-based provisioning workflows for large-scale server deployments, streamlining operating system installation and infrastructure setup processes.
- Upgraded and maintained Helm charts for Kubernetes workloads, improving configuration management, deployment reliability, and environment standardization.
- Collaborated with platform engineering teams to troubleshoot containerized applications, monitor cluster health, and support production infrastructure running on Kubernetes.
- Developed automation scripts and operational tooling to reduce repetitive administrative tasks, improving engineering productivity and deployment efficiency.

PROJECTS

FeedHire | *Java, Spring Boot, PostgreSQL, Redis, RabbitMQ, Docker, Kubernetes, OpenAI APIs* | feedhire.me

- Architected and developed a cloud-native job aggregation platform using Java Spring Boot and PostgreSQL, ingesting, normalizing, and enriching 5,000+ job listings daily from 30+ external sources through event-driven microservices.
- Designed resilient RabbitMQ-based asynchronous processing pipelines with dead-letter queues, retry strategies, and back-pressure controls, ensuring reliable data ingestion during traffic spikes and external feed failures.
- Implemented AI-powered job enrichment and semantic search using OpenAI APIs and pgvector, while integrating OAuth2, JWT authentication, and Redis caching to achieve sub-300ms search response times.
- Containerized services with Docker and deployed on Kubernetes running on Oracle Cloud, implementing GitHub Actions CI/CD pipelines, automated monitoring, and observability with Prometheus, reducing deployment times by 70%.

Conference Management Toolkit | *React, TypeScript, Node.js, Express, MySQL, Prisma* | [Live Demo](#)

- Designed and built a full-lifecycle academic conference platform covering paper submissions, peer review assignments, reviewer bidding, and chair decisions.
- Architected a RESTful API with 100+ endpoints and 17 relational database entities modeled with Prisma ORM and MySQL.
- Integrated Razorpay for tiered payment processing, AWS S3 (with local fallback) for file storage, and Nodemailer for transactional email notifications.
- Implemented real-time status updates via Socket.io and containerized the full stack with Docker for consistent deployment.

TECHNICAL SKILLS

Programming Languages: Java, Golang, JavaScript, TypeScript, Python

Frontend Technologies: React, Redux, Next.js, Tailwind CSS, Material-UI, Storybook

Backend Technologies: Spring Boot, Spring MVC, Spring Security, Spring Data JPA, Node.js, Express.js, REST APIs, Microservices

Databases: MySQL, MongoDB, Firebase

Testing: Jest, React Testing Library, Cypress, Percy

Cloud, DevOps & Infrastructure: Docker, Kubernetes, Helm, Jenkins, GitHub Actions, CI/CD, AWS S3, Oracle Cloud, Linux, PXE Boot, Prometheus

Tools & Methodologies: Git, Agile, Scrum, System Design