

# Abhishek Kumar Singh

Senior Software Engineer

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## SKILLS

- **Programming Languages** : Java, C++
- **Libraries and Frameworks** : Spring Boot, Hibernate, Spring Security, OAuth2.0, JWT, MySQL, Spring Cloud
- **Other Skills** : Microservices, DSA and Algorithm, Docker, Kubernetes, Design Pattern, Troubleshooting, Service Integration

## EXPERIENCE

### Software Development Engineer 2

May 2021 - Present

#### Boeing India

Bengaluru

- Performed the role of solution architect in creation of an idea & IP submission platform. Designed of the Rest API contracts and database schema, as well as implemented indexing for optimal reads.
- Developed a critical component of the aircraft configuration report utilized by the Federal Aviation Agency in US to validate the assembly of aircraft parts. Crafted complex relational queries ensuring data integrity for accurate certification.
- Containerized the web application using Docker which in turn saved 6 hrs of developers onboarding time in local setup and dependency integration.
- Resolve the critical production issue on call support with TAT of 1 day.
- Lead the organization initiative to Implement Lean principles through adoption of DevSecOps best practices and improved maturity coverage. In 2023, saved about 900 hrs from CI/CD and Coverity pipeline automation.

### Software Development Engineer 1

May 2018 - May 2021

#### Boeing India

Bengaluru

- Designed a spreadsheet upload/download functionality using open source library. This helped aircraft engineers in adding bulk parts at once which in turns saves 50-100 minutes per engineer in a day during aircraft testing.
- Automated the Coverity vulnerability scans by creating the Coverity pipeline. Configured jobs which runs scheduled scans and publish result on Dev/Prod Streams.

### Software development Intern

Jan 2017 - Jul 2017

#### Myntra

Bengaluru

- Build an application using Spring ,maven and Mysql db which will categorize Myntra customers based on their common behavior and affinity towards a product for personalize notifications, customize feeds and segmented banners.

## PROJECTS

### 1) Innovation Incubator: Fostering employee Ideas from Concept to Approved Inventions

The platform streamlined the process from idea generation to Quality Invention Disclosure (QID) approval by refining ideas with subject matter experts.

#### Key Responsibilities:

- Spearheaded the end-to-end backend development lifecycle of the Innovation Incubator platform, from conception to deployment.
- Designed the database schema with optimized cardinality and indexing.
- Implemented RESTful APIs with robust API and method-level security using JWT.
- Established and managed the CI/CD pipeline in TFS Azure and facilitated deployment in Cloud Foundry.

**Impact:** Reduced the turnaround time for idea evaluation and approval from 4 months to just 3 weeks, catalyzing a surge in patent filings and disclosures.

**Technologies Used:** Spring Boot, Java, REST API, JWT (JSON Web Tokens), MySQL, Pivotal Cloud Foundry

### 2) Online Event creation and booking platform

<https://github.com/stackroute/boeing-w1-e-play>

Single cloud-native microservices platform enabling event hosting and booking functionality.

#### Responsibilities:

- Executed the Low-Level Design of microservices, seamlessly integrating data flow among various services.
- Orchestrated the High-Level Design of the entire cloud-native application, ensuring optimal sizing of microservices for efficiency.
- Produced Docker images and containerized services for enhanced deployment and scalability.

**Technologies Employed:** Spring Boot, Java, REST API, Docker, Kubernetes (K8s), Spring Cloud Config, JWT, MySQL Database.

## EDUCATION

### Woolf University

2024

MS / M.Tech in Master of Science in Computer Science | 90 ECTS

### VIT, Vellore

2017

BE/B.Tech/BS in Computer Science | 8.7 CGPA