

# KUSHAGRA SRIVASTAVA

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## SUMMARY

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**Java Backend Developer** with 4+ years of experience designing scalable microservices using Java, Spring Boot, and AWS. Skilled in authentication systems, caching, API optimization, and DevOps tools such as Kubernetes and Docker. Previously developed OTP and session management systems, improving security and performance.

## EXPERIENCE

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### **Tata Consultancy Services (TCS), India**

**01/2024 – Present**

*System Engineer*

*Key Skills: Java, Spring Boot, Microservices, AWS, Kubernetes, Redis, Feign Client*

- Engineered a QR-based login system, enhancing authentication flow and improving user experience for 500+ developers and testers.
- Enforced credential-based login and OAuth, strengthening security and ensuring seamless integration for 100+ internal applications.
- Optimized session management, reducing session creation time by 30% and minimizing database load in staging environments.
- Architected and deployed an OTP microservice, handling 1,000+ authentication requests daily in pre-production with:
  - Rate limiting, preventing spam requests and ensuring controlled API usage.
  - Cache-based OTP management, reducing unnecessary database queries by 50%.
  - Dynamic module-specific and feature-specific configuration management, allowing real-time updates without redeployment.
  - Scalable and configurable architecture, with all parameters, including OTP length, dynamically governed from the database and cached for efficiency.
- Developed an AWS S3 utility framework, reducing code duplication by 40% and improving maintainability across microservices.
- Enhanced JPA repository queries, improving API response time by 20% in performance benchmarks.
- Replaced polling APIs with SSE & sockets, reducing redundant API calls by 70%, optimizing backend resource utilization.
- Applied Feign Client with caching, improving service boot time by 40% and reducing API latency.
- Executed circuit breakers, ensuring 99.5% system uptime and resilience during fault injection tests.
- Standardized error handling by expanding a Global Exception Handler, reducing debugging time by 40% across 200+ microservices.
- Increased test coverage from 30% to 85%, strengthening code quality and security compliance as per SonarQube analysis.
- Led and mentored a 10+ member team, improving code review efficiency and ensuring adherence to best practices.

### **Ksolves India, Noida, India**

**12/2020 - 12/2023**

*Software Developer*

*Key Skills: MVVM/MVP Patterns, Android Core Features, RESTful Web Services, Agile*

*Methodologies*

- Optimized Android application performance, improving stability by 25% through advanced analytics, memory management, and crash report analysis (measured via Firebase logs).

- Integrated Stripe wireless payment processing, reducing transaction failures by 40% and streamlining checkout flows (tracked via Stripe API success rates).
- Engineered an advanced image compression algorithm, cutting server storage requirements by 50% while preserving visual quality (benchmarked via storage utilization reports).
- Applied MVVM/MVP architecture, improving code modularity and reducing system crashes by 30% (validated via Android Vitals).
- Enhanced Agile workflows, achieving a 20% boost in sprint efficiency and accelerating feature releases (tracked via JIRA sprint velocity).

### The TechCubes, Pune, India

01/2020 - 11/2020

Intern — Full Time

Key Skills: Flutter, SQL, Android, UI Principles

- Designed and optimized mobile applications using Flutter and Android, reducing API response times by 30% through efficient data handling (measured using APM logs).
- Collaborated with cross-functional teams to refine development workflows, cutting project turnaround time by 25% (tracked via Git commit history and sprint reports).

### Hindustan Unilever, Bangalore, India

09/2020 - 01/2020

Intern

Key Skills: SAP UI5, Project Management, Design Patterns

- Developed web applications using SAP UI5 for the Product Lifecycle Management team, streamlining project planning and improving task tracking .

## PROJECTS

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### Covid Care. — Android, Firebase, Retrofit, Glide — ([Github](#))

Developed a user-friendly Android application that facilitates real-time tracking of COVID-19 cases globally. Integrated **Firebase** for user authentication and data storage, ensuring security and efficiency. Implemented **Retrofit** to enable seamless API integrations, enhancing the app's real-time data retrieval capabilities.

### Contact Organizer. — Java, Spring Boot, Thymeleaf, MySQL — ([Github](#))

Engineered a cloud-based contact management system using **Java** and **Spring Boot**, ensuring robust backend performance. Utilized **MySQL** for efficient data handling and storage, guaranteeing data integrity and accessibility. Incorporated **Thymeleaf** for server-side template rendering, enhancing user interface experience.

## SKILLS

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- Programming Languages: Java, Kotlin
- Backend Development: Spring Boot, Spring MVC, Spring Data JPA, Spring Security (OAuth2, JWT)
- Microservices & API Development: Feign Clients, Circuit Breakers, SSE, WebSockets, API Gateway
- Database & Caching: MySQL, PostgreSQL, Redis, Room Database
- Concurrency & Reactive Programming: Multithreading, CompletableFuture, Executors, RxJava, Coroutines
- Cloud & DevOps: AWS (EC2, S3, Lambda, RDS, API Gateway), Docker, Kubernetes
- CI/CD & Code Quality: Jenkins, GitHub Actions, SonarQube
- Android Development: MVVM, NavGraph, Data Binding, Work Manager, Retrofit

## EDUCATION

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### Bachelor of Technology, Computer Science

2016 - 2020

United College Of Engineering and Research.

7.4 CGPA

## CERTIFICATION

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- Microservices and Spring Boot — ([Certificate](#))