

# Dheeraj Kaushik

## Java Full Stack developer

Jind, Haryana 126101 | 8708033920 | dkher4@gmail.com | [linkedin.com/in/dheeraj-kaushik-a320a5226](https://linkedin.com/in/dheeraj-kaushik-a320a5226) | [github.com/dheerajkaushik](https://github.com/dheerajkaushik)

### EDUCATION

Chandigarh University — B.E. / B.Tech in Computer Science Engineering	CGPA: 8.18	Sept 2021 – June 2025 Mohali(Punjab)
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### SKILLS

Languages:	Java, JavaScript, SQL, HTML/CSS
Frameworks & Tools:	Spring Boot, Spring MVC, Spring Security, React.js, Hibernate (JPA), Tailwind CSS, Apache Kafka
DevOps & Databases:	Docker, AWS S3, Git, GitHub Actions, Maven, Render, Postman, MySQL, PostgreSQL
Core Competencies:	Microservices, RESTful APIs, Full Stack Development, API Integration, OOP, Unit Testing, DSA,

### WORK EXPERIENCE

Student Trainee – Blockchain Development   Metacrafter (Remote)	May 2023 - July2023
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- Developed and deployed **Ethereum smart contracts** using Solidity, following secure coding standards to prevent common vulnerabilities.
- Integrated **Web3.js** with frontend applications, enabling seamless smart contract interaction and transaction execution.
- Collaborated in **Git-based workflows** to build and iterate on multiple decentralized application (DApp) prototypes.

### PROJECTS

#### SkillForge – LMS (SaaS) (Spring Boot, React.js, PostgreSQL, Docker, AWS S3, Tailwind CSS)

Github: [github.com/dheerajkaushik/Skillforge](https://github.com/dheerajkaushik/Skillforge) | Live: <https://skillforge-1-nws0.onrender.com>

- Designed and implemented a full stack LMS with **30+ RESTful backend APIs** supporting **3-level content hierarchy** and **multiple content formats (video, PDF, text)**, enabling structured course creation and consumption with 5+ core workflows.
- Implemented a **containerized online code execution engine** using Docker, allowing users to compile and run programs securely with **isolated sandbox environments**, eliminating host-level risk.
- Enforced **JWT-based authentication and role-based authorization** with Spring Security, securing all critical APIs for admins, instructors, and learners.
- Integrated **AWS S3** for cloud-based file storage and media handling, enabling multiple parallel request in upload, retrieval, and streaming of learning content.
- Dockerized backend services and automated deployment via **CI/CD** pipelines, reducing environment setup time by 60% and improving deployment consistency.

#### StreamScale: (Java, Spring Boot, Apache Kafka, PostgreSQL, Docker)

[github.com/dheerajkaushik/stream-scale](https://github.com/dheerajkaushik/stream-scale)

- Designed Event-Driven Microservices: Decoupled Order and Inventory services using Apache Kafka and Zookeeper, enabling asynchronous processing of multiple orders/second without system blocking.
- Implemented Saga Pattern:** Orchestrated distributed transactions across microservices to ensure data consistency.

#### SyncBoard ( React.js, WebSockets (STOMP), HTML5 Canvas, Spring Boot)

[github.com/dheerajkaushik/Syncboard](https://github.com/dheerajkaushik/Syncboard) | Live: <https://syncboard-1.onrender.com/>

- Real-Time Collaboration Engine:** Architected a **bi-directional** messaging system using Spring Boot **WebSockets** and STOMP, achieving sub-50ms latency for seamless multi-user interaction.
- High-Performance Frontend:** Engineered an canvas **using React Konva** and Optimistic UI patterns, maintaining **60 FPS** rendering while eliminating perceived input lag during concurrent updates.