

# LOVE KAUSHIK

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## SUMMARY

Software Engineer with 3+ years of experience building and shipping scalable, production-grade systems using **Java**, **Spring Boot**, **React**, and **AWS**. Strong in microservices, system design, containerized deployments with **Docker** and **Kubernetes**, and familiar with modern **GenAI** concepts, including **Retrieval-Augmented Generation (RAG)**, with experience reasoning about and integrating retrieval-based AI systems in production workflows.

## WORK EXPERIENCE

**Ex Squared Solutions India Private Limited** | Software Engineer Aug 2022 - Present

- Built a **Calendar-driven meeting scheduling system** to coordinate appointments between users, vendors, and internal teams, enforcing conflict-free booking under concurrent requests. Integrated Google Meet and Outlook APIs and sent email confirmations with meeting details.
- Built a backend recommendation flow that used analytics-driven user intent and ML team-provided **retrieval-augmented (RAG) services** to fetch relevant homes from large property brochures. Implemented backend logic to validate and map retrieved results to active listings, and generated recommendation emails with integrated meeting scheduling.
- Built a **Asynchronous backend worker service** triggered via **SQS** to generate brochure PDFs from user-configured home selections by aggregating data from multiple services. Implemented retries and failure handling by persisting job state and errors in DynamoDB, notifying users on failure, and enabling administrators to reprocess jobs after resolution.
- Built a **centralized RBAC system** to control access across APIs and data, enforcing a hierarchical role model from admin to agent. Authorization was validated at API entry through a dedicated guardian service, with configurable roles and permissions to ensure consistent and scalable access control across services.
- Implemented a fullstack **Impersonation** feature enabling higher-privileged users to temporarily act as lower-level users for support workflows. The system preserved original user identity, enforced permissions on every request, and maintained audit logs to ensure safe and accountable usage.
- Rebuilt the front-end architecture of DreesHomes.com using React, implementing modular components and lazy loading to improve Core Web Vitals and SEO, reducing page load times by 35%. Collaborated with backend and DevOps teams to integrate APIs and support stable production releases.

**Ex Squared Solutions India Private Limited** | Software Engineer Intern Feb 2022 - Aug 2022

- Optimized existing complex **SQL** queries by leveraging **recursive CTEs** and **ranking functions**, cutting execution time by over 50% and enabling faster generation of analytics reports.
- Developed reusable and configurable UI widgets (navigation bars, cards, and layout components) within a modular frontend system used across multiple websites. Built responsive navigation components that handled layout variations, breakpoints, and edge cases across different screen sizes.

## TECHNICAL SKILLS

**Languages:** Java, JavaScript, Typescript

**RAG and LLM Systems:** Prompt Engineering, Hybrid Retrieval, Hallucination Mitigation

**Frameworks:** Spring Boot, NodeJs, ReactJs, VueJs

**Cloud & Devops:** AWS, Docker, Kubernetes, GitHub Actions

**Database:** MSSQL Server, Mongo DB

**Familiar with:** Data Structures & Algorithms, Microservices, Git, Redis, Kafka

## CERTIFICATIONS

- **AWS Certified Developer - Associate**

## EDUCATION

**Manav Rachna International Institute of Research and Studies**  
Bachelor of Technology in Computer Science

August 2018 – July 2022  
GPA: 8.5/10