

# Atul Thakur

## Software Engineer

Pune, India

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## Summary

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Full-Stack Software Engineer with 3+ years of experience building scalable web applications using JavaScript, React.js, Java, Spring Boot, and REST APIs. Proven expertise in developing enterprise-grade backend services, integrating SQL databases, and delivering production-ready solutions using Docker, CI/CD, and cloud platforms. Hands-on experience integrating AI-powered chatbot features and applying prompt-based workflows to enhance user interactions. Strong collaborator experienced in large-scale, cross-functional environments.

## Experience

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### Software Engineer

*RAK Softech, Pune*

*Nov 2024 — Jan 2026*

**Tech Stack:** React.js, Java, Spring Boot, Docker, AWS EC2, CI/CD, MySQL

- Designed and developed end-to-end full-stack web applications using React.js for frontend and Java (Spring Boot) for backend services
- Built and deployed RESTful APIs with well-structured request/response models to support scalable frontend applications
- Implemented business logic, validation, and data persistence using Spring Boot and MySQL
- Integrated backend services with frontend components, ensuring smooth data flow and performance optimization
- Containerized applications using Docker and supported automated CI/CD pipelines for reliable deployments
- Led end-to-end development of Employee Management System and B2B Commerce Platform, handling design, development, and deployment.
- Collaborated with cross-functional teams to deliver production-ready features in an agile environment
- Participated in architectural decisions and code reviews, ensuring clean architecture, maintainability, and scalability across services

### Associate Software Engineer

*Cornerstone OnDemand, Pune*

*Jan 2023 — Nov 2024*

**Tech Stack:** React.js, Java, Spring Boot, NX, MySQL

- Developed and maintained enterprise-scale full-stack features for a large Learning Management System (LMS)
- Built backend services using Java and Spring Boot, following OOP principles and clean architecture practices
- Developed dynamic, reusable frontend components using React.js within an NX monorepo architecture
- Designed and optimised database queries and backend workflows using MySQL
- Worked on localisation engineering tools, supporting multi-language and internationalisation features
- Collaborated with product, QA, and engineering teams to support iterative feature releases
- Ensured code quality, maintainability, and performance in a large-scale SaaS environment
- Implemented role-based access control (RBAC) and secure REST APIs to support different user personas and permissions
- Improved application performance and reliability by identifying bottlenecks, refactoring legacy code, and optimising API response times

## Education

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MCA (AI & Data Science), Pune, 2021 — 2023

DY Patil International University

Focused on Artificial Intelligence and Data Science, covering machine learning, data analysis, and AI-driven application development with practical project experience.

BCS, Pune, 2018 — 2021

ATSS College(Pune University)

Focused on core computer science subjects including programming, databases, operating systems, and software engineering fundamentals.

## Technical Skills

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**Languages:** JavaScript, Java, Python

**Backend Development:** Node.js (Express.js), Java Spring Boot, Spring MVC, Hibernate/JPA, REST APIs, JWT Authentication, SQL & NoSQL Databases, Redis (Caching)

**Frontend Development:** React.js, HTML5, CSS3, Responsive UI Development, API Integration

**Frameworks/Libraries:** React.js, Node.js, Spring Boot, Hibernate, JWT, Pandas, NumPy

**Databases:** MySQL, PostgreSQL, MongoDB, Redis

**MERN Stack:** MongoDB, Express.js, React.js, Node.js

**Developer Tools:** Git, Docker, Jenkins, Jira, Bitbucket, VS Code

**Architecture & Practices:** MVC Architecture, Layered Architecture, RESTful Design, Microservices Basics, Secure API Design, Scalable System Development

## Projects

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### LLM-Based Chatbot (Production-Ready API)

Tech Stack: Python, LangChain, LLMs, REST APIs, Docker, Cloud Deployment

- Built a scalable AI-powered chatbot API using LLMs for natural language understanding
- Implemented Retrieval-Augmented Generation (RAG) to improve response accuracy and relevance
- Applied prompt engineering and structured input/output handling for consistent responses
- Enabled real-time streaming responses for conversational user experience
- Deployed the service using Docker on cloud infrastructure

### AI Image Colorization using GANs

Tech Stack: Python, Deep Learning, GANs

- Developed an AI system to colorize black-and-white images using Generative Adversarial Networks
- Trained and fine-tuned GAN models to improve visual accuracy and performance
- Strengthened understanding of machine learning fundamentals and model optimization

## Languages

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- English
- Hindi
- Marathi