

# Abhishek Rawat

## Principal Engineer / Technical Lead (AI-Augmented Systems)

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## Professional Summary

Principal Engineer / Technical Lead with 9+ years of experience building, modernizing, and scaling enterprise-grade backend and full-stack systems across fintech, digital banking, supply chain, healthcare, trading, and internal enterprise platforms. Strong expertise in Java, Spring Boot, system design, microservices, and modulith architecture, combined with hands-on experience delivering AI-augmented systems using Python, FastAPI, OpenAI, and vector databases. Proven technical leader with end-to-end ownership, Employee of the Year (2×) awardee, and a strong track record of mentoring teams, driving architecture decisions, and delivering high-impact solutions for remote-first organizations.

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## Core Skills

### Backend & APIs

- Java, Spring Boot, Hibernate
- Python, FastAPI
- RESTful APIs
- Microservices & Modulith Architecture

### AI / LLM & Data

- OpenAI APIs (LLMs)
- Prompt Engineering
- Retrieval-Augmented Generation (RAG)
- Vector Databases: pgvector
- PostgreSQL, SQLite

### Frontend

- React.js, TypeScript
- HTML, CSS

## Databases

- PostgreSQL, MySQL
- MongoDB
- SQLite

## Architecture & Engineering

- System Design (Scalable & Distributed Systems)
- Modular Monolith (Modulith) Design
- Event-Driven Architecture
- Microservices
- Performance Optimization

## DevOps & Cloud

- Docker
  - CI/CD Pipelines
  - Linux
  - Microsoft Azure (Fundamentals)
  - AWS
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## Professional Experience

**Mind IT Systems — Delhi, India**  
**Technical Lead / Principal Engineer**  
**July 2021 – Present**

- Leading architecture, design, and delivery of Spring Boot-based platforms using a mix of microservices and modulith architecture, choosing the right approach based on scale, complexity, and team maturity.
- Acting as primary technical owner, responsible for long-term scalability, maintainability, and system design decisions.

- Mentoring engineers, conducting design and code reviews, and raising overall engineering quality and productivity.
- Designing modular, domain-aligned systems to reduce coupling and improve deployment stability.
- Building and integrating AI-augmented backend services using Python, FastAPI, OpenAI APIs, and pgvector.
- Collaborating closely with product, business, and DevOps teams to translate requirements into scalable technical solutions.
- Awarded Employee of the Year (2×) for exceptional technical leadership, ownership, and delivery impact.

### **Senior Software Engineer**

**October 2016 – July 2021**

- Designed and developed high-performance REST APIs using Java and Spring Boot.
- Delivered backend systems across fintech, e-commerce, supply chain, healthcare, and trading domains.
- Worked on monolithic, modulith, and microservice-based architectures, developing strong architectural judgment.
- Improved system reliability and performance through query optimization, refactoring, and modularization.
- Mentored junior engineers and actively contributed to system design discussions.

### **Software Trainee**

**July 2016 – October 2016**

- Trained in Java, backend development, and database fundamentals.
  - Assisted in developing and testing backend modules and APIs.
  - Quickly ramped up to production responsibilities, leading to promotion into a full-time engineering role.
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### **Key Projects**

**EPrabhat (6 Months)**

**Digital Publishing / DRM Platform**

- Built a license-based eBook selling platform with a proprietary desktop eReader application.

- Implemented licensing logic ensuring purchased books could only be accessed through the platform's desktop app.
- Designed backend workflows for purchase validation, license enforcement, and reader authentication.
- Focused on content protection and controlled digital distribution.

**Niyo App (1.5 Years)**  
**Digital Banking Platform**

- Worked on backend systems for an Android-based digital banking application.
- Built APIs for account management, transactions, statements, and expense analytics.
- Enabled backend support for graphs and insights showing user spending trends.
- Ensured high reliability and performance for banking-grade workloads.

**COT - Container Optimization Tool (6 Months)**  
**Supply Chain Optimization**

- Developed a backend system to optimize container filling based on item volume, weight, and dimensions.
- Implemented algorithm-driven logic to maximize container utilization.
- Reduced manual planning effort and improved logistics efficiency.

**LinkPay (2.5 Years)**  
**US Fintech Payments Platform (ACH)**

- Core contributor to a US-based fintech payment platform enabling merchant-customer payments via ACH transfers.
- Designed and implemented payment, payout, settlement, and reconciliation lifecycles.
- Worked extensively on banking integrations, transaction state management, and failure handling.
- Built fault-tolerant workflows to ensure financial consistency and reliability.

**Algotic (6 Months)**  
**Algorithmic Trading Platform**

- Developed backend services for an algo trading platform built on Paytm Money broker APIs.
- Enabled users to place automated trades based on predefined algorithms.

- Implemented secure integrations for order placement, execution tracking, and status updates.
- Focused on safe execution, reliability, and controlled automation.

**Taiba – HMS Migration Project (1.5 Years)**  
**Healthcare (Hospital Management System)**

- Key contributor to rebuilding a large HMS platform to migrate from JSP-based monolith to React + Spring Boot architecture.
- Re-architected backend services for better scalability, maintainability, and frontend decoupling.
- Designed APIs to support long-term extensibility and modern UI requirements.
- Supported smooth migration with minimal disruption to hospital operations.

**Interne – Enterprise AI Assistant Platform (12 Months)**  
**Enterprise AI / Internal Systems**

Interne is an internal enterprise AI system providing secure, role-aware access to company knowledge and data.

- **Policy Knowledge Chatbot (6 Months):**
  - Built an AI chatbot to answer queries on internal company policy documents.
  - Implemented document ingestion, chunking, and semantic retrieval using OpenAI LLMs.
  - Designed prompt strategies for accurate, contextual, and safe responses.
- **Role-Based Database Chatbot (6 Months):**
  - Developed a role-aware chatbot interacting with structured HR databases.
  - Enforced role-based access control (RBAC) to protect sensitive data.
  - Combined SQL-based data retrieval with LLM-generated natural language responses.
  - Enabled secure conversational access to enterprise data with governance.

**SB Inventory – AI Inventory Mapping Tool (2 Months)**  
**AI Automation / Inventory Management**

- Built an AI-driven inventory reconciliation tool mapping external order sheets to internal inventory systems.

- Normalized inconsistent data and stored semantic representations as vector embeddings.
  - Enabled intelligent matching using similarity search.
  - Significantly reduced manual reconciliation effort.
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## Certifications

- **Microsoft Azure AI Fundamentals (AI-900)**
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## Achievements

- **Employee of the Year – 2 Times**
  - Career progression from **Software Trainee → Senior Engineer → Technical Lead**
  - Trusted technical owner for long-running, business-critical systems
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## Education

**Bachelor of Technology (B.Tech) – Computer Science**

**Dr. A. P. J. Abdul Kalam Technical University (AKTU)**

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## Availability

- Open to **Remote / Global Opportunities**
- Comfortable working in **distributed, high-ownership teams**
- Strong adopter of **AI-assisted engineering workflows**