

Dhiraj Patil

Software Engineer | Backend | Java | Kotlin | Spring Boot

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Summary

Software Engineer with 2+ years of experience building and scaling production backend systems using Java, Kotlin, Spring Boot, Kafka, Redis, and PostgreSQL. Delivered systems processing 1,00,000+ invoices monthly, reduced bulk processing time by 65%, and improved API response times by 40%. Integrates **Claude Code** into daily development workflow to accelerate feature delivery. ICPC Regionalist and LeetCode Guardian (Top 1%).

Experience

Noovosoft Technologies

Oct 2024 – Present

Application Developer · Full Stack Engineer

Pune, India

- Built and shipped invoice, VAT, and financial reporting modules using **Kotlin, Spring Boot, React.js, and PostgreSQL**, processing **1,00,000+ invoices monthly** in live production.
- Reduced bulk invoice upload processing time by **65%** by redesigning synchronous workflows as **asynchronous pipelines** using **Kafka and Redis**, eliminating API slowdowns during peak loads.
- Improved core API response times by **40%** through **PostgreSQL query optimization and index redesign**, boosting performance across downstream reporting workflows.
- Implemented **role-based access control and Spring Security** across invoice and tax modules, closing a critical authorization gap and preventing unauthorized access to sensitive financial data.
- Designed and shipped **REST APIs** for invoice workflows, tax rule engines, and bulk file processing, supporting multiple business units at enterprise-scale data volumes.
- Adopted **AI-assisted development with Claude Code** for code review, debugging, and documentation across the invoice and tax codebase, cutting routine task turnaround time and accelerating release velocity.
- Delivered production features using **Git, Jenkins, Docker, and CI/CD**, collaborating with QA and product teams on a biweekly release cycle.

Accelya Group

Aug 2024 – Oct 2024

Engineer I · Full Stack Developer

Pune, India

- Built and maintained internal **React.js dashboards** backed by REST API integrations, used daily by engineering and operations teams.
- Debugged and resolved **cross-service API integration issues** in a microservices environment, improving service reliability.

Zscaler

Feb 2024 – Aug 2024

Software Engineer Intern · Backend & Automation

Pune, India

- Automated deployment and operational workflows using **Python and Bash**, reducing repetitive manual engineering effort.
- Wrote and optimized **SQL queries and data pipelines** to analyze distributed system behavior and identify anomalies.
- Built **Pytest** suites for automation workflows, improving test reliability and reducing regressions.

Technical Skills

- Languages:** Java, Kotlin, Python, JavaScript, TypeScript
- Backend:** Spring Boot, REST APIs, Microservices, Spring Security, JPA/Hibernate, Kafka, Redis, Scheduling
- Databases:** PostgreSQL, SQL, Query Optimization, Indexing, Partitioning
- Frontend:** React.js, HTML5, CSS3, TypeScript
- Cloud & DevOps:** AWS, Docker, Jenkins, CI/CD, Linux, Bash
- AI Tools:** Claude Code, AI-Assisted Development, Prompt Engineering
- Core CS:** Data Structures & Algorithms, OOP, Distributed Systems, System Design, Agile/Scrum

Projects

Scalable Notification & Job Scheduling System | Kotlin, Spring Boot, PostgreSQL, Redis Streams

- Engineered a distributed asynchronous job scheduling system supporting **delayed jobs, retries, dead-letter queues, and exponential backoff** using Redis Streams and Spring Boot.
- Designed PostgreSQL schemas and indexes with monitoring APIs to track **job retries, failures, and processing latency**.

Centralized Logging & Monitoring System | Java, Spring Boot, PostgreSQL, Docker

- Built a centralized logging and full-text search platform using **Spring Boot and PostgreSQL**, with indexing and partitioning for efficient log retrieval.
- Implemented analytics APIs, monitoring dashboards, and alerting workflows for system observability.

Education

PCET's Pimpri Chinchwad College of Engineering & Research

Aug 2020 – Jul 2024

Bachelor of Engineering – Computer Engineering

CGPA: 9.24 / 10

Certifications

- Claude 101 · AI Fluency: Framework & Foundations · Claude Code in Action** — Anthropic Academy

Achievements

- ICPC Regionalist** (2023–24) — Qualified for ICPC Asia Regional contest.
- Competitive Programming** — LeetCode Guardian, **Top 1% (2168)** · CodeChef 5-Star (2048) · Codeforces Specialist (1548).
- Research Publication** — Published ML-based mental health detection research paper · Hacktoberfest Contributor (2022).