

# Akhilesh Ojha

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## PROFESSIONAL SUMMARY

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Software Developer with a strong foundation in **Java and Spring Boot**, and experience with relational databases. Skilled in building secure REST APIs and scalable backend systems using JWT authentication and Spring Security. Demonstrates strong problem-solving ability with practical exposure to backend optimization and AI-assisted development using offline LLM inference tools. Passionate about building reliable and efficient backend applications.

## TECHNICAL SKILLS

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**Core Java & Programming:** Core Java, OOPs, Java 8, Multithreading, Problem Solving, Exception Handling, DSA (Basics)  
**Backend & Security:** Spring Core, Spring Boot, Spring MVC, REST APIs, Spring Data JPA, Hibernate, JDBC, JWT Authentication, Spring Security (Basics), Microservices (Basics), Docker  
**Databases & Tools:** MySQL, JUnit, Mockito, Postman, Swagger, Git, GitHub, IntelliJ IDEA  
**Frontend & AI Tools:** HTML, CSS, JavaScript, React.js, Windsurf IDE, Ollama (Local LLM Inference), Continue Plugin

## EXPERIENCE

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### Software Developer Trainee

May 2025 – Present

*REGex Software Services*

- Improved backend performance by 35% through **Spring Boot** code optimization, **MySQL** tuning, API design, exception handling, and database query optimization.
- Built responsive full-stack features using **React.js**, JavaScript, HTML, and CSS, ensuring smooth UI-backend integration.
- Leveraged AI development tools (**Windsurf, Cursor**) to speed up coding, debugging, and testing, reducing delivery time and improving quality.

## PROJECTS

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### Custom LMS Platform | *Java, Spring Boot, JWT, SLF4J, DTO Abstraction, Third-Party Integrations, Swagger API*

- Designed an **LMS** with modular architecture and **role-based access**, planned adaptive dashboards and Google Meet/Classroom integration as part of the project roadmap.
- Engineered secure REST APIs with **JWT authentication**, **DTO abstraction**, structured **logging (SLF4J)**, and performance profiling, improving API response time by 30%.
- Planned integration of open-source LMS platforms (Moodle), Twilio, and Elasticsearch for analytics, async processing, and **Swagger-based API documentation**.

### Offline AI Chat Engine | *Spring Boot, Ollama, LLM Models Integration, Mistral, Llama3, Windsurf IDE*

- Integrated multiple **LLMs (Llama3, Mistral, Phi-3 Mini)** into a robust backend, enabling seamless **multi-model switching**.
- Built a responsive chat **UI** with persistent model selection and **retry logic**, achieving 99% query reliability.
- Utilized **AI-assisted tools** to enhance development workflows, defect analysis, and quality assurance, resulting in faster delivery cycles.

### Banking Application | *Spring Boot, Spring Data JPA, MySQL, RESTful APIs, SMTP alerts, @Transactional*

- Built core features like account creation, deposits, withdrawals, fund transfers, and **Transaction history**.
- Designed secure **RESTful APIs** with session-based authentication, **SMTP login alerts**, admin auto-setup, and frontend integration for seamless user interaction.
- Implemented **DTO-layer abstraction**, entity relationships (OneToMany, JoinColumn), **@Transactional** consistency, lazy loading, and optimized database queries to boost performance by 30%.

## EDUCATION

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### CDAC Bangalore

*Post-Graduation Diploma in Advanced Computing*

*September 2023 – April 2024*

### JECRC Foundation

*BTech (CE)*

*June 2018 – June 2022*