

# Abhinesh Jha

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## SUMMARY

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Backend developer specializing in Java and Spring Boot with expertise in building production-grade distributed systems. Strong foundation in RESTful API design, database optimization, and security implementation. Experienced in network programming, concurrency patterns, transaction management, and asynchronous processing. Passionate about clean architecture, performance optimization, and solving complex technical challenges with scalable solutions.

## PROJECTS

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### TaskManager API | *Spring Boot, Java, MySQL*

[GitHub](#)

- Engineered RESTful API with CRUD operations supporting 1000+ daily tasks
- Automated audit logging tracking 10,000+ changes for compliance
- Optimized transaction management, reducing database locks by 60%
- Achieved 200ms response time via JPA query optimization
- Ensured data integrity with transaction boundaries and persistence
- Deployed containerized app with Docker, ensuring 99.9% uptime

### PeerLink - Secure P2P File Sharing Platform | *Java, Next.js, TypeScript*

[GitHub](#)

- Built with socket programming to enable file sharing via sockets without cloud storage
- Built P2P file transfer system supporting 500MB+ transfers
- 7-layer security: PIN authentication, rate limiting, auto-delete
- Architected thread-safe system handling 50+ transfers concurrently
- Built custom HTTP parser achieving 30% faster upload speeds
- Developed file validation preventing malicious uploads

## OPEN SOURCE CONTRIBUTIONS

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**Active open-source contributor and winner of 3 competitive open-source programs. Continuously contributing to FOSS projects to improve code quality and community collaboration.**

- **Active Contributor:** Latest merged PR — [AloisSeckar/demos-java](#) (*Add demo for JEP 361 - Switch Expressions (Java 14) with JEP 325 & 354 links*)

## SKILLS

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**Languages:** Java, Python, C, C++, SQL, JavaScript, Kotlin

**Backend & Frameworks:** Spring Boot, Spring MVC, Spring Data JPA, Spring Security, Hibernate, Maven, RESTful APIs

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

**DevOps & Tools:** Git, Docker, Linux, Postman, Swagger/OpenAPI, CI/CD (GitHub Actions)

**Concepts:** Concurrency & Multithreading, Design Patterns, Agile Methodologies, Clean Architecture, Database Optimization, Network Programming, Security Best Practices, Test-Driven Development

## EDUCATION

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### Maharshi Dayanand University

2022 - 2026

*Bachelor of Technology in Computer Science*

**CGPA: 8.2/10**

- **Academic Focus:** Data Structures & Algorithms, Operating Systems, Database Management Systems, Computer Networks, Software Engineering, Object-Oriented Programming, Backend Development, Distributed Systems, Network Programming, Database Design