# JYOTHI K

Information Science Engineer|Java & Backend Development|AI Enthusiast
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Final-year Information Science student skilled in backend development, scalable system design, and test automation. Experienced in architecting, designing, and delivering applications using Java, REST APIs, and AI/ML techniques. Adept at collaborating in cross-functional teams and applying problem-solving skills to build high-quality, maintainable software.

## EDUCATION

**T John Institute Of Technology —** *Information Science and Engineering* *Aug 2022 – Present*

## PROJECTS

*— Multitenant AI Chatbot System (Team Project-Contributor)* *May 2025 – Jul 2025*

- Architected a scalable multitenant architecture ensuring isolated, secure access for multiple organizations.
- Integrated frontend and backend for real-time query processing and document uploads.
- Implemented document search using FAISS indexing, improving query response relevance.
- Developed RESTful APIs for document handling, admin workflows, and client-specific search.

*— 2D Shooting Game in Java (Wild Blue Yonder)* *Sep 2024 – Nov 2024*

- Designed and developed an event-driven 2D shooter game using Java Swing.
- Implemented collision detection, enemy AI, and state transitions for smooth gameplay.
- Optimized rendering loop to maintain consistent frame rates.

## SKILLS

- Core Concepts: Data Structures & Algorithms, OOP, REST APIs ,Problem Solving
- Languages: Java, Python (basic), SQL
- AI/ML: Large Language Models (LLaMA), RAG, FAISS Indexing
- Frameworks & Tools: Java Swing, Git, GitHub, VS Code
- Testing: Basic Unit Testing in Java
- Collaboration: Git, GitHub, Team Projects

## CERTIFICATIONS

**Paper Publication – IJCRT —** *International Journal of Creative Research Thoughts (IJCRT)* *Jul 2025 – Jul 2025*
Bengaluru

- Published the paper "WILD BLUE YONDER: A Single Player Shooting Game Implemented in Java" in the International Journal of Creative Research Thoughts (IJCRT), Volume 12, Issue 12, December 2024.
- Impact Factor: 7.97 (Google Scholar)
- Paper ID: IJCRT2412641