

Muhammed Jinas TP

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PROFESSIONAL SUMMARY

Motivated B.Tech Computer Science student with foundational knowledge of programming, problem-solving, and analytical thinking. Strong communication skills with the ability to clearly explain technical concepts. Seeking an entry-level role to contribute to business growth, client engagement, and technology-driven solutions.

EXPERIENCE

- **QSpiders CampusConnect (Test Yantra Software Solutions)** Kochi, India
Core Java Intern May 2025 – June 2025
 - **Core Java Programming:** Gained strong hands-on experience in Core Java fundamentals, including object-oriented programming concepts such as inheritance, polymorphism, encapsulation, and abstraction.
 - **OOP Control Flow:** Worked with classes, objects, constructors, methods, access modifiers, and control flow statements such as loops, conditionals, and switch cases.
 - **Advanced Java Concepts:** Implemented method overloading and overriding, and effectively used Java keywords including `static`, `final`, `this`, and `super`.
 - **Collections Multithreading:** Worked with Java Collections Framework (List, Set, Map) and gained hands-on exposure to multithreading concepts, thread lifecycle, and basic synchronization.
 - **Exception Handling:** Applied exception handling mechanisms using try-catch blocks, throws, throw, and custom exceptions to write robust and maintainable code.
 - **Code Quality:** Demonstrated the ability to write, debug, and optimize clean, efficient, and maintainable Java code for real-world problem scenarios.

PROJECTS

- **Real-Time Surveillance and Trespasser Classification on Railway Platforms:** Developed an AI-driven video surveillance system to enhance railway platform safety using real-time object detection and behavior analysis. Implemented YOLOv8 and SSD models for detecting passengers, trains, and safety lines from CCTV footage, with an RNN-based module for temporal risk prediction. Designed a Flask-based web application for video upload, real-time alert generation, event logging, and annotated output download. Improved detection accuracy in crowded environments and enabled context-aware alerts for safety line violations. **Technologies:** Python, YOLOv8, SSD, RNN, OpenCV, Flask, Deep Learning
- **Blockchain-Based Income Traceability System for Equitable Welfare Distribution:** Designed and developed a blockchain and AI-enabled system to ensure transparent and fair welfare distribution by securely recording digital wage transactions on a private blockchain. Implemented smart contracts for immutable income tracking and integrated AI/ML models to estimate income patterns, detect anomalies, and dynamically classify beneficiaries into BPL/APL categories. Built a real-time administrative dashboard for policy monitoring and decision support, ensuring data integrity, privacy, and improved targeting of welfare schemes.

ACHIEVEMENTS AND RESPONSIBILITIES

- **Certificate for the Completion of C Training :** Spoken Tutorial of IIT Bombay
- **Java Assessment:** Java Assessment certificate from Learntube
- **Volunteer Secretary:** Leadership of NSS in school and College
- **Youth Innovation Program:** Submitted idea in the YIP

EDUCATION

- **St. Thomas College of Engineering & Technology, Mattannur** Kannur, Kerala
B.Tech in Computer Science and Engineering — CGPA: 7.2 2022 – 2026
- **Koodali Higher Secondary School, Koodali** Kannur, Kerala
Higher Secondary — Perc: 94 2020 – 2022

SKILLS

- **Comfortable:** C, JAVA, SQL, Python, Data Structures