DINESH YADAV

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PROFESSIONAL SUMMARY

Aspiring Software Development Engineer skilled in **Java**, **Python**, and **distributed systems**, with strong fundamentals in **DSA**, **OOP**, and **system design**. Experienced in building **AI-driven cloud applications** using **Spring Boot**, **FastAPI**, **AWS**, and **MongoDB**. **Award-winning developer** recognized for **innovation** and **problem-solving**, passionate about creating **high-performance**, **fault-tolerant**, and **customer-focused systems**.

EDUCATION

Master of Computer Applications (MCA) – St. Joseph's University, Bengaluru | 2023 – 2025 | **CGPA: 8.3**

Bachelor of Computer Applications (BCA) – Jain University, Bengaluru | 2019 – 2022 | **CGPA: 8.0**

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, C#
Frameworks & Libraries: Spring Boot, FastAPI, React Native, JDBC
Databases: MySQL, MongoDB
Cloud & DevOps: AWS (EC2, S3), Azure (Basics), CI/CD (GitHub Actions)
Tools: Git, IntelliJ IDEA, VS Code, Postman
Core Concepts: Data Structures & Algorithms, Object-Oriented Design, Distributed Systems, Scalability, Optimization, REST APIs, System Design, SDLC, Test-Driven Development, Debugging

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PROJECTS

Flood Rescue Drone Detection System — ESP32, Python, OpenCV, U-Net
- Developed AI-powered flood-rescue drone for real-time **Flood detection, tracking, and alerts**.
- Optimized **detection model on ESP32 hardware** for efficient on-device processing.
- Awarded **1st Prize at Christ University** for innovation, social impact, and system implementation.

Computer-Based Examination System — Java, Spring Boot, MySQL
- Built a **secure online examination platform** with role-based access, REST APIs for user management, question creation, and test evaluation.
- Designed **MySQL schema** and modular backend for scalability, maintainability, and high performance.
- Implemented **unit tests and CI/CD pipelines** to ensure reliable deployment and code quality.

Restaurant Management System — FastAPI, React Native, MongoDB
- Developed full-stack restaurant management system with menu, order, and reservation modules integrated **frontend-backend with real-time updates**.
- Designed **MongoDB schemas**, built REST APIs, optimized queries, and **secured authentication**.
- Implemented production-ready features during internship, **ensuring scalable, maintainable design.**

EXPERIENCE

Software Development Intern — UniQTX Telecom Solutions, Bangalore | Jan 2025 – Jun 2025
- Developed **production-ready REST APIs** and backend modules using FastAPI and MongoDB with secure authentication and optimized queries.
- Collaborated with frontend team for **real-time updates**, wrote tests, and maintained **CI/CD pipelines**.
- Participated **in Agile sprints** and **code reviews**, improving reliability and performance.

Internship Trainee — Hindustan Aeronautics Limited (HAL), Bangalore | Mar 2022 – Apr 2022
- Collected, debugged, and validated helicopter flight and incident datasets for **aviation safety analysis**.
- Automated data preprocessing workflows and documented insights for **engineering decision-making**.
- **Worked independently** to solve complex data problems and ensure accuracy.

PUBLICATION

Cloud-Enabled Threats: Risk of 51% Attacks in Cryptocurrencies — *International Journal of Modern Engineering Research (IJMER)* Proposed proactive mitigation strategies and cost-efficient blockchain protection leveraging cloud infrastructure.

ACHIEVEMENTS

- **1st Prize – IoT Drone Project** (Flood Rescue System) | Christ University
- **2nd Prize** – Ideation Ignite (Tech Innovation Challenge) | Acharya College
- **1st Prize** – Treasure Hunt (Teamwork & Strategy) | St. Paul College