

MADHUDHANUSU K

madhudhanush706@gmail.com | +91 8754936001 | linkedin.com/in/mdkdev | github.com/Madhudhanush
www.madhudhanusu.online

Final-year Computer and Communication Engineering student and Tech Seeker with hands-on experience in Java, Spring Boot, SQL, RESTful APIs, and backend application development. Primary focus on Backend Engineering, with a strong interest in Data Engineering and exposure to Computer Vision concepts. Possesses a solid foundation in backend system design, database schema design, and API integration, and is actively learning to build scalable, efficient backend systems while gaining practical industry experience.

EDUCATION

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| B.E. – Computer and Communication Engineering | 2022 -2026 |
| Sri Sairam Institute of Technology, Chennai | |
| HSC – Bharani Park Matric Hr. Sec. School, Karur | 2021 - 2022 |
| SSLC – Bharani Park Matric Hr. Sec. School, Karur | 2019 - 2020 |

TECHNICAL SKILLS

- Languages:** Java, Python, SQL, C, JavaScript.
- Backend:** Spring Boot, Spring Security, Hibernate/JPA, FastAPI, REST API, GraphQL.
- Frontend:** Angular, HTML5, CSS3.
- Databases:** MySQL, PostgreSQL, MS SQL Server, MongoDB.
- Developer Tools/AI:** Git, Docker, JWT, YOLO, OpenCV.

INTERNSHIP EXPERIENCE

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| Graduate Intern – Mr. Cooper | (Jul 2025 – Aug 2025) |
| <ul style="list-style-type: none">Developed full-stack features using Spring Boot and React.Contributed to a functional enterprise-level application. | |
| R&D Intern – Sairam Techno Incubation Centre | (Jun 2025 – Jul 2025) |
| <ul style="list-style-type: none">Implemented AI models in Python for research projects.. | |

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| Engineering Intern – AltrAI Technologies Pvt Ltd | (Jun 2024 – Jul 2024) |
| <ul style="list-style-type: none">Built a YOLOv8 - based cattle monitoring system with.Created and labeled custom datasets for livestock behavior tracking. | |

PROJECTS

CarePlus – Healthcare Platform (2025) github.com/Madhudhanush/CarePlus

contributed as a backend developer to CarePlus, a healthcare platform connecting users with caretakers. I designed the Microsoft SQL Server database using a Snowflake schema and implemented Hibernate/JPA for object-relational mapping. I developed secure RESTful APIs with Spring Boot and integrated JWT-based authentication to manage patients, appointments, and user roles effectively.

Cattle Monitoring System (2024) madhudhanushk-cattlemonitoringsystem.hf.space

Developed a cattle monitoring system using YOLOv8 to detect livestock behavior and health anomalies from video feeds, enabling real-time activity tracking and early anomaly detection to support improved livestock productivity

CERTIFICATIONS

- Supervised ML: Regression & Classification (Coursera)
- Fundamentals of Computer Vision (Udemy)
- Python for ML (Udemy)
- Programming in Java (NPTEL)
- Industrial IoT (NPTEL)
- Software Conceptual Design (NPTEL)

HIGHLIGHTS

Languages: Tamil, English

Publication: “Smart Diagnosis: Early Detection and Management of Plant Diseases” – IJRASET, 2025

Workshops & Competitions: IEEE Extreme 2023, SIH Final 24 Waiting List

Volunteer & Leadership Activities: Agaram Student Volunteer, Event Organizer-Department Symposium CocoEnz-25