

MADHUDHANUSU K

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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

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

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..	
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
<ul style="list-style-type: none">• Contributed as a Backend Developer to a healthcare platform, designing a Microsoft SQL Server Snowflake schema and implementing Hibernate/JPA for ORM.• Built secure RESTful APIs using Spring Boot with JWT-based authentication for patient, appointment, and role management.
Cattle Monitoring System (2024) - madhudhanushk-cattlemonitoringsystem.hf.space
<ul style="list-style-type: none">• 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

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

ADDITIONAL INFORMATION

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