MADHUDHANUSU K

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SUMMARY

Final-year Computer and Communication Engineering student with hands-on experience in Java, Spring Boot, SQL, and REST API development. Skilled in backend systems, database design, and secure authentication. Strong problem-solving abilities and a keen interest in full-stack development. Seeking opportunities to apply and expand my technical skills, gain practical industry experience, and contribute to impactful software development projects in an entry-level role.

EDUCATION

B.E. – Computer and Communication Engineering
Sri Sairam Institute of Technology, Chennai — **2022 - CGPA: 7.74**
HSC – Bharani Park Matric Hr. Sec. School, Karur — **2022 - 89%**
SSLC – Bharani Park Matric Hr. Sec. School, Karur — **2020 - 84%**

TECHNICAL SKILLS

Languages: Java, Python, SQL, C, JavaScript, HTML, CSS
Frameworks & Tools: Spring Boot, Hibernate/JPA, React
Databases: MySQL, Microsoft SQL Server, PostgreSQL
Concepts: REST API Development, GraphQL, OOPS, Authentication (JWT), System Design

INTERNSHIP EXPERIENCE

Graduate Intern – Mr. Cooper (July 2025 – Aug 2025, Chennai)

- Developed full-stack features using Spring Boot and React.
- Contributed to a functional enterprise-level application.

R&D Intern – Sairam Techno Incubation Centre (June 2025 – July 2025, Chennai)

- Implemented AI models in Python for research projects.
- Explored and built backend solutions with Django framework.

Engineering Intern – AltrAI Technologies Pvt Ltd (June 2024 – July 2024, Chennai)

- Built a YOLOv8-based cattle monitoring system with 92% accuracy.
- Created and labeled custom datasets for livestock behavior tracking.

PROJECTS

CarePlus – Healthcare Platform (2025)
As part of a group project, I 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.

Plant Disease Detection using Computer Vision (2024 – 2025)
I developed a plant disease detection system leveraging YOLOv12 to identify crop diseases from leaf images. The application helps farmers by detecting diseases at an early stage and recommending treatments, thereby improving agricultural productivity. This work also led to the publication of a research paper in IJRASET.

CERTIFICATIONS

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

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