Harsha Vardhan Appikatla

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Professional Summary

Software Engineering student with strong foundations in Java and core Computer Science concepts. Experienced in designing and building reliable, scalable applications using Spring Boot and modern web technologies. Proven ability to translate requirements into scalable technical solutions, collaborate in team environments, and improve system reliability and performance. Interested in developing maintainable, production-ready software with a focus on correctness and scalability.

Core Skills

Programming Languages: Java, JavaScript, Python
Backend Development: Spring Boot, RESTful APIs, MVC Architecture, Authentication & Authorization, CRUD Operations
Frontend Development: HTML5, CSS3, React.js, Tailwind CSS, Bootstrap
Databases: MySQL (schema design, normalization, joins)
Computer Science Fundamentals: Data Structures & Algorithms, Object-Oriented Programming, DBMS, Operating Systems, Computer Networks
Tools & Practices: Git, GitHub, Postman, VS Code, debugging, API testing, basic unit testing

Projects

Gate Pass & Attendance Management System (RINL)   Java, Spring Boot, JavaScript

- Designed and developed a full-stack system to manage gate passes and attendance for contract workers in an industrial environment.
- Built RESTful APIs using Spring Boot to handle backend workflows, validation, and role-based authentication.
- Implemented Admin and Worker roles with authorization controls and OTP-based verification for secure access.
- Integrated frontend dashboards with backend services using a clean MVC structure.
- Improved system reliability and reduced manual verification effort by approximately 50%.

Library Management System   HTML, CSS, JavaScript

- Built a role-based web application supporting Student, Librarian, and Admin functionalities.
- Implemented search, issue, and return workflows for managing over 1000 book records.
- Designed reusable JavaScript components and applied responsive UI principles for cross-device consistency.

Facial Emotion Recognition System   Python, Deep Learning

- Developed and evaluated deep learning models using ResNet-50 and Inception-V3 architectures.
- Applied transfer learning to improve performance on limited datasets.
- Achieved approximately 87% classification accuracy and analyzed results using confusion matrices and loss curves.

Internship Experience

Software Intern — RINL (Vizag Steel Plant)   8 Weeks

- Collaborated with senior developers on feature implementation, debugging, and code reviews.
- Integrated frontend components with backend REST APIs following team coding standards.
- Participated in testing, validation, and issue resolution to improve system stability and observability.

Education

VIT-AP University   2022 – 2027
Integrated M.Tech in Computer Science Engineering
CGPA: 8.8 / 10

Sri Chaitanya Junior College   2020 – 2022
MPC

Certifications & Leadership

- Google DevFest — Participant
- Internship — RINL, Vizag Steel Plant
- IIT Hyderabad — Machine Learning Workshop
- Design Team Co-Lead — Photon Club (coordination, timelines, cross-team communication)