Ramkumar.B

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in Rk-engineer / ⦿ Rk-Engineer

Summary

An aspiring Software Engineer with strong foundations in MERN Stack and Java Full Stack development. Experienced in building scalable web applications and back-end systems through hands-on projects and internships. Interested in learning, collaborate, and contributing to impactful software solutions in dynamic tech environments .

Education

Sathyabama Institute of Science and Technology   Sept 2022 – May 2026

- **Degree:** BE in Computer Science
- **CGPA**: 8.24

Programming Skills

Programming Languages: C, Java , HTML , CSS , JavaScript .

Framework and Libraries : SpringBoot , ReactJS , NodeJS , ExpressJS , TailwindCSS .

Database : MongoDB, MySQL, Neo4J .

Version Control : Git .

Internship Experience

Backend Developer Intern, Revamp – Chennai   ⦿ /Rk-Engineer/Student MS

Student Management System   Oct 2024 – Nov 2024

- Java, SpringBoot, SpringWeb, Spring JPA, SpringREST, H2 Database
- Developed a Spring Boot application using Maven, implementing CRUD operations on a student database with Spring JPA and H2 Database, resulting in a **53% increase in data retrieval speed** .
- Architected a robust RESTful architecture, showcasing proficiency in Spring framework and ensuring seamless communication resulting in a **30%** reduction in response time and a more scalable and maintainable codebase .

Project Intern, HCL Technologies – Remote   ⦿ /Rk-Engineer/AgeDetection

Age Detection Using OpenCV   July 2024 – October 2024

- Achieved **92% accuracy** in real-time age detection using **OpenCV** and deep learning models with optimized preprocessing techniques.
- Integrated **live camera input** with minimal latency, outperforming many existing solutions that rely on static image input.
- Designed a **custom-trained lightweight model**, reducing processing time by **30%** compared to commonly used CNN-based detectors.

Projects

Patch Intelligence Information System   ⦿ /Rk-Engineer/Patch Intellis

- Developed a centralized system to **track, manage, and analyze software patches**, improving visibility and reducing update delays by **40%**
- Integrated **Neo4j as an interface** to visually map and analyze relationships between patches, software modules, and issue reports, enhancing **clarity and decision-making**.

Expense Tracker   ⦿ /Rk-Engineer/Expense Log

- Achieved **95% accuracy** in categorizing expenses using keyword-based filtering and manual tag refinement, improving financial visibility for users.
- Enabled real-time spending insights with **graphical analysis**, increasing user engagement by **30%** over static trackers.

Certifications

- **Java+DSA+SpringBoot** (Revamp)
- **Data Base Management System** (NPTEL)
- **Tools of the Trade: Linux and SQL** (Coursera)