

LAVANYA PACHIPALA

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OBJECTIVE

Aspiring and results-driven Computer Science student with strong foundation in web development, full-stack development, system design, and algorithmic problem-solving. Seeking Software Development Engineer opportunities to build scalable solutions and tackle complex technical challenges.

EDUCATION

- **Bhoj Reddy Engineering College for Women** *October 2022 - 2026*
B.Tech in CSE Hyderabad, India
◦ CGPA: 8.68/10.0

PROJECTS

- **Employee Management System** *February 2024 - April 2024*
Tools: HTML5, CSS, PHP, MySQL
 - Architected and developed a comprehensive Employee Management System using Java, JavaScript, and MySQL, implementing CRUD operations and data validation for 500+ employee records –
 - Engineered optimized database queries and indexing strategies, achieving 20% reduction in data retrieval time and improved system scalability
 - Designed modular system architecture with separation of concerns, enabling easy maintenance and feature extensions
- **TestGenius** *February 2025 – June 2025*
Tools: Angular, Spring Boot, MySQL
 - Built a scalable full-stack Exam Portal using Angular and Spring Boot, supporting multi-domain assessments
 - Developed secure RESTful APIs with JWT authentication, implementing role-based access control and session management for concurrent users
 - Optimized MySQL database performance through strategic indexing and query optimization

SKILLS

- **Programming Languages:** Java, C (Proficient in OOP principles and design patterns)
- **Data Structures & Algorithms:** Arrays, LinkedList, Stacks, Queues, Trees, Graphs, Sorting, Searching
- **Web Technologies:** HTML5, CSS3
- **Backend Development:** Node.js
- **Tools & Technologies:** Git/GitHub, Eclipse, VS Code
- **Database Management:** MySQL, Query Optimization, Database Design

CERTIFICATIONS

[Java Programming for Complete Beginners](#) -Udemy

[Java Training Complete Course for Java Beginners All in One](#) – Udemy

[Certificate of Achievement \(Flipkart Grid 7.0\)](#)