PECHETTY LAVANYA

College Graduate | Java Full Stack Developer

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CAREER OBJECTIVE

Seeking an entry-level Java Full Stack Developer position to apply knowledge of Java, Spring Boot, Angular, and database management systems. Eager to contribute skills to build scalable web applications and grow professionally through collaboration with experienced developers.

EDUCATION

Bachelor of Technology in Information Technology — Nov 2020 – July 2024
Malla Reddy Engineering College for Women, Hyderabad — CGPA: 7.2

TECHNICAL SKILLS

- **Programming Languages:** Core Java (Java8), TypeScript, JavaScript(ES6)
- **Frameworks:** Spring Framework (Spring Boot, Spring MVC, Spring Cloud), Hibernate, Angular, Node.js
- **Web Technologies:** HTML, CSS
- **Build Tools:** Maven
- **Database:** SQL, JDBC,POSTGRESQL
- **Development Practices:** Understanding of the Software Development Life Cycle (SDLC)
- **Version control systems:** Git

PROJECTS

Book Inventory Management System

- Engineered and deployed a scalable book inventory management application using Java, Spring Boot, and MySQL, enhancing backend stability and data consistency.
- Automated inventory tracking and stock update workflows using scheduled background services, increasing inventory accuracy by 25% and reducing data discrepancies across modules.
- Designed and integrated advanced filtering and search modules with Angular, reducing user query time and improving frontend responsiveness.
- Constructed and optimized RESTful APIs to streamline communication between Angular frontend and Spring Boot backend, accelerating data exchange by 40%.
- Conducted comprehensive unit testing, load testing, and performance tuning, boosting system speed and maintaining uptime across deployment environments.

Two-Stage Classification Model for Patient Grouping

Developed a two-stage classification model that accurately segregated patients into Lower Variability and High Variability user resource groups, ensuring high classification precision.

- Implemented machine learning algorithms to identify key features contributing to variability, improving prediction precision by 25%.
- Operated data preprocessing and feature engineering, optimizing model performance by reducing data noise, resulting reduction in error rate.
- Applied cross-validation techniques and hyperparameter tuning, boosting model robustness and generalization, leading to a 30% improvement in test set performance.
- Integrated the classification model into the existing healthcare analytics platform, facilitating real-time patient segmentation, which enhanced operational efficiency.

CERTIFICATIONS

- Attained Cisco Cybersecurity Certification.
- Gained Cisco Cybersecurity Essentials Certification.
- Certified in Networking Essentials.