Anant Agarwal

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Education

Jodhpur Institute of Engineering and Technology, Jodhpur

B.Tech., Computer Science and Engineering   *CGPA: 8.57 (II Year)*

Experience

Next Learner Pvt. Ltd   Delhi

Software Developer Intern | Java, MySQL, JDBC, Swing, REST APIs   *May - June 2024*

- Developed **Exam Node**, a scalable examination management system, by implementing modular **Java components** and designing efficient **MySQL schemas**, improving data management and retrieval performance by 30%.
- Created responsive and user-friendly **GUIs using Swing** with **MVC architecture**, ensuring seamless interaction with backend services and enhancing system usability.
- Integrated and tested **REST APIs** for real-time data exchange, streamlining communication between system modules and external services.
- Utilized tools like **Postman, MySQL Workbench**, and **Git/GitHub** for API testing, database design, and version control, maintaining a high-quality codebase.

Projects

ATM Simulator System | *Java, Swing, MySQL, JDBC*   GitHub

- Developed core ATM functionalities such as balance inquiry, deposit, withdrawal, and PIN change, ensuring 100% accuracy in transaction handling via JDBC integration.
- Optimized SQL database queries, enhancing overall system performance by 25% for seamless user experience.
- Simulated real-world ATM operations by integrating backend logic with a user-centric design, achieving a 90% user satisfaction rate in testing.

Hospital Management System | *Java, JSP, Servlet, JDBC, MySQL*   GitHub

- Improved data retrieval efficiency by 30% through optimized MySQL queries while ensuring secure storage of patient, doctor, and inventory records.
- Automated key functionalities like patient registration, appointment scheduling, and billing, reducing manual effort by 40%.
- Enhanced user experience with dynamic JSP pages and optimized performance, leading to a 25% faster load time.
- Implemented a real-time appointment scheduling system with conflict resolution and automated notifications, resulting in a 15% reduction in patient wait times and improved resource allocation.

Achievements

Runner-Up, ISTE Hackathon

- Led a team of 4 members and secured runner-up position at the ISTE Hackathon, held at MANIT Bhopal.

Certificates

Basics of Java - Part I   Coding Ninjas
Accenture Nordics - Software Engineering Job Simulation   Forage
Goldman Sachs - Software Engineering Job Simulation   Forage

Relevant Courses

Data Structures and Algorithms | Operating Systems | Object-Oriented Programming
Database Management Systems | Computer Networks

Technical Skills and Interests

Programming Languages: Java, SQL, HTML, CSS, JavaScript

Libraries/Frameworks: Swing, Bootstrap, JDBC, JSP, Servlet

Backend Technologies: MySQL, REST APIs

Developer Tools: IntelliJ IDEA, NetBeans, Git, GitHub, MySQL Workbench, VS Code, Postman, MS Office

Interests: Full-Stack Development, Database Optimization, Software Architecture, Problem-Solving with DSA