TARNALA SRIBATSA PATRO

Bhubaneswar, Odisha

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Education

Silicon University   **Sep. 2023 – Present**
Bachelor of Technology in Computer Science and Engineering   *Bhubaneswar, Odisha*

Institute of Higher Secondary Education, S'O'A   **Bhubaneswar, Odisha**
Higher Secondary Education   *Mar. 2021 – Mar. 2023*

Experience

Java Developer Intern   **june. 2024 – July. 2024**
Rumango Software Solution Pvt. Ltd.   *Bhubaneswar, Odisha*

- Designed and developed Java-based console and GUI applications using Core Java (J2SE), following object-oriented programming principles to improve modularity and code reusability.
- Developed and managed multi-threaded applications to simulate concurrent task execution, significantly improving program efficiency.
- Utilized Java Collections Framework (List, Set, Map) to manage complex data structures, optimizing data handling and improving application performance.
- ntegrated MySQL databases with Java applications using JDBC for seamless data storage, retrieval, and manipulation through CRUD operations.
- Built interactive user interfaces with Java Swing, enabling intuitive and user-friendly desktop applications for internal project simulations.

Projects

Pharmacy Management System — Desktop Application   **January 2021 – Present**

- Developed a full-featured desktop-based Pharmacy Management System using Java Swing for the GUI and MySQL for backend database management.
- Implemented **role-based access control** to differentiate between Admin and Employee profiles, restricting access to critical operations such as stock management and financial reports.
- Designed modules for **inventory tracking**, including real-time stock updates, alerts for soon-to-expire medicines, and visual **stock analysis** using charts and graphs.
- Integrated **profit and loss analysis**, with export options in **CSV format** for expired, sold, and returned products to enable easy report generation and auditing.
- Built an intelligent **customer information system** with auto-fill capability for repeat customers to improve billing speed and user experience.
- Enabled both **retail and wholesale billing**, with separate discount and pricing strategies, and implemented **payment mode selection** (cash/online).
- Developed a **dynamic QR code generator** to display the exact billing amount for online payments, along with a **printable invoice feature** to streamline transaction workflows.

Technical Skills

Languages: Java, C, HTML/CSS, SQL
Technical Skills: Object-Oriented Programming (OOP), Data Structures and Algorithms (DSA), Design and Analysis of Algorithms (DAA), Database Management, Operating Systems (Windows, Linux), Basic SQL Querying, Web Development (HTML / CSS),
Tools: IntelliJ IDEA , Eclipse IDE, VS Code, MySQL Workbench, Git, GitHub