Saud Manganhar

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GitHub: github.com/ssaauudd22 • Portfolio: ssaauudd22.github.io/Web-Portfolio • Linkedin: www.linkedin.com/saud-manganhar

Summary

Motivated and results-driven Computer Science student with hands-on experience developing real-world software solutions. Created a lottery sales tracking app actively used in retail stores to automate reporting and boost operational efficiency. Strong foundation in object-oriented programming and backend development using Java, Python, and C++. Actively seeking a software engineering internship to contribute to impactful projects in tech, fintech, or engineering.

Technical Skills

Languages: Java, Python, C++, HTML, CSS
Tools & Technologies: Git, VS Code, Microsoft Excel, Visual Matrix PM
Core Concepts: OOP, Report Automation, Inventory Management, API Integration, System Design

Projects

- **Lottery Management System**

• Designed and deployed a real-time lottery ticket sales system used in 3+ retail stores.
• Automated inventory tracking and daily report generation, reducing end-of-day closeout time by 67%.
• Integrated shift logs and ticket data with actionable dashboards for store managers.
• Improved ticket restock predictions using custom low-stock alerts and shift performance metrics.

- **To-Do Web App**

• Built a simple and responsive full-stack to-do app with task creation, completion, and deletion features.
• Used HTML, CSS, JavaScript for frontend and Python Flask for backend integration.
• Implemented persistent storage and basic user interaction flow.

- **Power Grid Real-Time Monitoring Simulation**

• Developed a desktop simulation that mimics real-time monitoring of a power grid using Python.
• Included real-time logging, anomaly detection, node-based graph plotting, and change visualization.
• Tracked grid health status per node with updates in real-time and simulated fault detection.

- **Heap-Up Task Manager**

• Created a priority-based task manager using heap data structure for sorting tasks by urgency.
• Enabled users to dynamically add, update, and delete tasks based on custom priority levels.
• Improved task resolution time through intuitive sorting and retrieval logic.

Education

University of Texas Rio Grande Valley (UTRGV) – Edinburg, TX

Bachelor of Science in Computer Science
Expected: Spring 2026

Experience

- **Big Lucky Lotto – Software Developer / Lottery Manager**

Alamo, TX • 2021 – Present

• Developed internal lottery sales software in Python to automate shift tracking and sales reporting.
• Analyzed sales data trends to enhance inventory accuracy and save hours in daily closing.
• Deployed Excel automation tools across stores to streamline reporting.

- **Best Western Miramar – Front Desk Agent**

San Diego, CA • Sep 2023 – May 2024

• Managed front desk operations using Visual Matrix PMS and handled high-volume customer check-ins.
• Collaborated across departments to ensure a smooth guest experience.

- **Sylvan Learning Center – Tutor**

McAllen, TX • Nov 2022 – Aug 2023

• Tutored students across age groups in core academic subjects with tailored lesson plans.

- **GBA Wholesale – Inventory Manager**

Alamo, TX • 2020 – 2023

• Maintained and optimized digital inventory systems, improving stock visibility and search efficiency.

- **Stop & Go – Lottery Sales Clerk**

Mercedes, TX • 2019 – 2023

• Handled sales logs and generated end-of-shift reports with high accuracy.

- **Baba's – Lottery Intern**

Donna, TX • 2019 – Present

• Conducted research on commercial lottery software and maintained operational sales records.