Fawz Manzoor

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EDUCATION

Lewis University   **Romeoville, IL**
Bachelor of Computer Science   *August 2022 - December 2026*

Relevant Coursework: Data Structures & Algorithms, Discrete Mathematics, Data Science, Operating Systems AP Computer Science A, Programming in C, Introduction to Programming

RELEVANT EXPERIENCE

Typing Speed Tester – *Personal Project*   *Java*
- Developed a full-featured desktop application to measure typing speed and accuracy in real time, improving usability through responsive UI and intuitive feedback.
- Engineered live timer and WPM calculations using java.util.Timer and custom string comparison logic, achieving <100ms delay for real-time metrics display.
- Dynamically generated randomized paragraphs for each session to simulate real-world typing conditions and prevent memorization bias.
- Designed a responsive, interactive UI with JavaFX, providing visual cues for correct vs. incorrect keystrokes as users typed.
- Implemented object-oriented design patterns (e.g., encapsulation, abstraction) to structure features like session management and feedback generation.

Movie Recommendation System – *Data Structures & Algorithms*   *Python*
- Engineered a modular Python application simulating a real-world movie recommendation engine, incorporating a custom deque ADT (double-ended queue) to enable efficient, rule-based access from both ends of the data structure, enhancing flexibility in content curation and retrieval workflows.
- Designed and implemented a menu-driven command-line interface (CLI) to support real-time user interaction, including movie search, sequential browsing, and top-rated filtering, leveraging control flow structures, exception handling, and input validation to deliver a user-friendly experience.
- Integrated lightweight machine learning logic using collaborative filtering and genre-based similarity scoring to generate personalized movie recommendations based on simulated user preferences and rating patterns.
- Combined ML driven suggestions with efficient sorting/search algorithms and custom deque traversal to deliver real-time Top 3 results, balancing accuracy with $O(n \log n)$ performance.

Spam Email Classifier – *Personal Project*   *Python*
- Developed a binary classification model to detect spam emails using supervised machine learning and NLP techniques.
- Preprocessed and vectorized email text using TF-IDF to convert unstructured text into numerical features.
- Trained and evaluated multiple models (Naive Bayes, Logistic Regression, SVM) to determine the best-performing algorithm.
- Achieved over 95% accuracy on a test set, used precision, recall, and F1-score for performance validation.
- Visualized results with a confusion matrix and ROC curve to highlight classification effectiveness.

H&M   **Joliet, IL**
Sales Associate   *June 2022 - January 2025*
- Collaborated with a fast-paced team to optimize customer experience and meet sales goals, demonstrating strong communication and agile teamwork.
- Utilized point-of-sale (POS) systems and inventory databases daily, gaining hands-on experience with retail software and data management.
- Identified workflow inefficiencies on the sales floor and proposed improvements that enhanced team coordination, mirroring agile sprint feedback cycles.
- Analyzed customer traffic patterns and product placement effectiveness to better inform restocking decisions, sharpening data-driven decision-making skills.
- Adapted quickly to new company technologies and procedures, showing ability to learn and implement digital tools.
- Assisted in troubleshooting POS malfunctions, resolving 80% of minor tech issues without escalation, demonstrating adaptability and technical awareness.

SKILLS & PROFICIENCIES

Technical Skills: Python, Java, C, R, Linux, Debugging, Microsoft Word, Microsoft PowerPoint, Microsoft Excel, IntelliJ, VScode, PyCharm, GitHub, Docker, Kubernetes, MongoDB, SQL, Azure, Postgres,

Interpersonal Skills: Code Optimization, Effective Communication, Leadership, Strong Work Ethic, Responsible, Ambitious, Adaptability, Problem Solving

Interests: Nature, Reading, Tennis, Soccer, Basketball, Football, Hiking, Swimming