

# Malik Jamal

Cleveland, OH

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## EDUCATION

### Cleveland State University

*Washkewicz School of Engineering*

Bachelor of Science in Computer Science -- 3.5 GPA

Cleveland, OH  
Class of 2025

## SKILLS AND SYSTEMS

**Programming Languages:** Java, JavaFx, JavaScript, Python, C, GDScript, HTML, CSS

**Frameworks & Tools:** Git/GitHub, Unix/Linux, React.js, Chart.js, RabbitMQ, API Integration, Microsoft Office, G-Suite

**Databases:** SQL(MySQL, SQLite)

**Relevant Courses:** Operating Systems | Quantum Machine Learning | Mobile App Development | Language Processors | Algorithms

Internet Programming | Data Science | Database Concepts | Comparative Program Languages | Artificial Intelligence | Computer Networks

**Other:** Strong communication, Natural language processing, Android development, Unit testing, Technical documentation

## PROJECTS

### • POS System Integration & Modernization

- Designed and deployed a modern point-of-sale (POS) platform using Python and SQLite, consolidating inventory management, employee scheduling, and sales reporting into a single system and eliminating three separate manual workflows.
- Improved transaction throughput by ~40% by implementing asynchronous processing with RabbitMQ, reducing checkout latency and enabling offline-first transaction handling during network outages with automatic data reconciliation.
- Built a responsive management dashboard in React utilizing Chart.js and reusable component architecture, providing real-time sales analytics, automated low-inventory alerts, and customizable financial reports, which reduced manual reporting time by 60%.
- Optimized frontend performance by implementing state management, memoized components, and efficient data fetching, resulting in sub-second dashboard load times for high-volume transaction data.

### • Virtual Reality Campus Tour

- Led the design and development of an interactive VR campus tour using Godot Engine and XR Tools, showcasing campus facilities and student life through immersive 3D experiences while achieving consistent 90 FPS performance.
- Built interactive features including teleportation nodes, information hotspots, and guided walkthroughs using GDScript, AnimationTree, and VR input systems, improving load times by ~70% through user testing and scene profiling.
- Managed version control and team collaboration using Git and GitHub, maintaining a clean, scalable codebase that supported multiple project iterations and future enhancements.

### • AI-Powered Recipe Recommender

- Built an AI-powered recipe recommender CLI that parses natural-language ingredient lists and evaluates up to 10 recipes per query, ranking results by ingredient match and missing items.
- Improved relevance and flexibility with smart filters, supporting 6 dietary constraints, along with cuisine filters, prep-time limits, and intolerance handling, while keeping responses fast and error handling reliable within API limits.
- Engineered a modular, maintainable architecture using separate components for the API client, recommendation engine, and CLI, with secure environment-based key management, CSV export capability, and version control via Git/GitHub.

## EXPERIENCE

### Costco

*Supervisor*

Cleveland, OH

01/2022 – Present

- Led front-end operations in a high-volume retail environment, overseeing POS system workflows, transaction accuracy, and system uptime during peak business periods.
- Provided technical support and real-time troubleshooting for POS software, register hardware, and transaction issues, serving as the primary escalation point for system-related incidents.
- Trained and coached associates on POS system usage, error resolution, and standardized operating procedures to ensure consistent system performance and data integrity.
- Monitored cash management processes and transaction logs, ensuring compliance with corporate policies and accurate end-of-day reconciliation.
- Collaborated with department managers to identify process inefficiencies and implement workflow improvements that enhanced customer throughput and operational reliability.

### Hanini Subs

*Operations Manager & Systems Administrator*

Akron, OH

01/2018 – 12/2021

- Successfully managed day-to-day operations of a family-owned restaurant, increasing revenue by 20% through effective cost control measures.
- Integrated a lightweight database system (SQLite) to manage product data and employee shifts, improving accuracy and reducing manual entry errors.
- Collaborated with ownership to modernize the POS infrastructure, troubleshooting system issues and deploying updates to enhance transaction speed and reliability.