

# RICHARD MALIYETU

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## SUMMARY

Computer Science graduate with a passion for building secure, scalable full-stack applications. Proven ability to develop and deploy production-ready tools using React, FastAPI (Python), C++, and SQL. Strong foundation in system-level programming, Linux, and cybersecurity (CompTIA Security+, Google Cybersecurity). Experience working in Agile teams and delivering real-world apps that improve student services and automate tasks. Seeking entry-level roles in software engineering, backend development, cybersecurity, or DevOps.

## TECHNICAL SKILLS

**Languages:** C++, Python, Java, JavaScript, SQL, HTML5, CSS3

**Frameworks/Tools:** React, FastAPI, Tailwind CSS, Appwrite, Prisma, NeonDB, Git, Linux

**Databases:** MariaDB, PostgreSQL

**Concepts:** OOP, Data Structures & Algorithms, Operating Systems, Secure Coding, Agile/Scrum, Git Version Control

**Certifications:** CompTIA Security+ (in progress), Google Cybersecurity (Coursera), CodePath iOS Development

## EDUCATION

- **University of Maryland, Baltimore County (UMBC)** | *Bachelor of Science, Computer Science* | GPA: 3.6  
Relevant Coursework: OOP (C++), Software Engineering, Operating Systems, Data Structures, Algorithms, AI, DBMS
- **Community College of Baltimore County (CCBC)** | *Associate of Science, Computer Science* | GPA: 3.1  
Relevant Coursework: OOP (Java), Calculus, Linear Algebra, Physics, Discrete Mathematics

## PROJECTS

**UMBC Essentials Inventory App** | *React, FastAPI, MariaDB, Git, Agile*

- Built and deployed a campus inventory system to streamline food access for students.
- Implemented secure Role-Based Access Control (RBAC) for admins and students.
- Reduced manual tracking by 40% and increased inventory accuracy across campus.

**Editor App (SaaS)** | *Next.js, Prisma, NeonDB, Clerk Auth*

- Developed a scalable image/video editor with user authentication and responsive UI.
- Improved multi-device access through optimized queries and caching strategies.
- Ensured privacy through robust user auth and session management.

**Movie Player** | *C++*

- Designed a dynamic playlist system using templated linked lists and operator overloading.
- Added sorting, filtering, and playback queue functionalities.
- Optimized memory usage through dynamic allocation.

**Custom Linux Kernel Module** | *Linux, C, Operating System*

- Developed and tested a custom kernel module to experiment with process scheduling.
- Gained in-depth exposure to context switching, system calls, and kernel debugging.

**Note App** | *React, Appwrite, Tailwind CSS*

- Built a real-time CRUD-based note app with live updates via Appwrite subscriptions.
- Focused on responsiveness, performance, and clean UI/UX.

**Airline Route Planner** | *C++*

- Created a simulation of an airline route system using custom C++ linked list structures.
- Added route reversal, distance calculation, and file-based input parsing.

## WORK EXPERIENCE

**Delivery Partner** | *Uber & DoorDash* | 2023 – Present

- Delivered 1,500+ orders with consistent high customer satisfaction and efficient time management.
- Developed strong problem-solving skills handling unexpected route changes and customer needs under pressure.

**Computer Science Department Teaching Assistant (TA)** | *UMBC* | 2023 – 2025

- Supported instruction for 100+ students by assisting with grading, debugging code, and clarifying course concepts during office hours.
- Facilitated effective communication between students and instructors, contributing to improved course engagement and academic performance.

**Office Clerk (Remote)** | *City of Baltimore – Administrative Services* | 2022 – 2023

- Digitized and organized over 5,000 paper records, reducing retrieval time by 30%.
- Maintained accurate correspondence, vendor invoices, and appointment logs using remote collaboration tools.
- Streamlined office operations through efficient data entry, email management, and calendar scheduling.

**Customer Service Associate** | *Barnes & Noble* | 2021 – 2022

- Managed inventory and POS systems while assisting customers with product and loyalty program inquiries.
- Improved transaction speed and accuracy through effective use of digital sales tools.

**Administrative Assistant (IT Office)** | *CCBC Technology Services* | 2019 – 2021

- Scheduled technician appointments and tracked 100+ helpdesk tickets, enhancing IT support workflow.
- Maintained up-to-date documentation for software licenses and computer setups, ensuring compliance.
- Interfaced with students and staff to log system access requests and triage minor issues.

**Summer Intern** | *YMCA New Horizons Program* | 2017 – 2019

- Led small groups in summer youth programs and assisted with technology use (e.g., tablets, registration tools).
- Helped organize daily schedules and ensured student engagement during structured activities.