

# RICHARD MALIYETU

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## SUMMARY

Recent Computer Science graduate with strong proficiency in full-stack development, systems programming, and cybersecurity. Skilled in building secure, scalable applications using React, FastAPI, Python, C++, and SQL. Experienced in Agile environments and passionate about learning new technologies to solve real-world problems. Actively seeking entry-level roles in software engineering, backend development, or frontend development.

## EDUCATION

### University of Maryland, Baltimore County (UMBC)

May 2025

Bachelor of Science, Computer Science (GPA: 3.6)

- **Coursework:** OOP (C++), Software Engineering, Operating Systems, Data Structures, Algorithms, AI, DBMS

### Community College of Baltimore County (CCBC)

June 2023

Associate of Science, Computer Science (GPA: 3.1)

- **Coursework:** OOP (Java), Python, Calculus, Linear Algebra, Physics, Discrete Mathematics

## TECHNICAL SKILLS

- **Languages:** Python, C++, Java, JavaScript, SQL, HTML5, CSS3
- **Frameworks/Tools:** React, FastAPI, Tailwind CSS, Git, Linux
- **Databases:** MariaDB, PostgreSQL
- **Concepts:** OOP, Data Structures & Algorithms, Operating Systems, Agile/Scrum, Git, Secure Development Practices
- **Certifications:** CompTIA Security+ (in progress), Google Cybersecurity (Coursera), CodePath Web and iOS Development

## PROJECTS

### HobbyMatch | React, FastAPI, PostgreSQL, Firebase Auth

- Developing a social platform that matches users by ranked hobby preferences with chat, RSVPs, and gamified features.
- Built full-stack architecture using React, FastAPI, PostgreSQL, and secure Firebase authentication.
- Open-source project emphasizing real-time updates, responsive design, and collaborative development.

### UMBC Essentials Inventory | React, FastAPI, MariaDB

- Developed and deployed a campus-wide inventory system to improve student food access.
- Implemented secure Role-Based Access Control (RBAC) for students and admins.
- Increased inventory accuracy and reduced manual tracking significantly

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

- Built a responsive image/video editor with user authentication and session management.
- Enhanced performance through optimized queries and caching for multi-device use.
- Prioritized user privacy with robust authentication and access control

### Custom Linux Kernel Module | C, Linux

- Wrote and debugged a kernel module to study process scheduling and context switching.
- Gained in-depth exposure to context switching, system calls, and kernel debugging.

### Movie Player | C++, Linux

- Designed a playlist system using C++ templates and linked lists and operator overloading.
- Added playback queue, sort/filter options, and memory-efficient allocation.

### Airline Route Planner | C++, Linux

- Simulated an airline route system with distance tracking and route reversal logic.
- Implemented custom data structures and file-based input parsing.

## EXPERIENCE

### UMBC | Computer Science Department Teaching Assistant (TA)

2023 - 2025

- Provided hands-on support to 100+ students through code debugging, grading, and clarifying complex CS concepts.
- Held regular office hours and lab sessions, fostering better understanding and academic improvement.
- Acted as a liaison between students and faculty, improving engagement and course feedback loops.

### Audacious Inquiry | Software Engineer Intern

2023 - 2024

- Developed and maintained RESTful APIs using Python (FastAPI), integrating React-based UI with PostgreSQL backend systems.
- Automated CI/CD pipelines using GitHub Actions and Docker, enhancing deployment reliability and reducing manual errors.
- Contributed to Agile sprints, peer code reviews, and implemented secure authentication with Firebase and role-based access control

### CCBC Technology Services | Administrative Assistant (IT Office)

2020 - 2023

- Managed scheduling and tracked 100+ helpdesk tickets, streamlining technician response and resolution time.
- Maintained and organized software license records and set-up documentation to ensure IT compliance.
- Logged system access requests and supported students/staff with minor technical issues and triage.

## PROFESSIONAL DEVELOPMENT

- **CodePath iOS Development Bootcamp:** Completed a 4-month immersive program in iOS development using Swift and UIKit. Developed team-based apps utilizing RESTful APIs, data persistence, and modern mobile design patterns. (Feb 2025 - May 2025)
- **CodePath Web Development Bootcamp:** Completed a 4-month intensive program focused on full-stack development with Javascript, HTML, CSS, React, Node.js, and REST APIs. Built end-to-end projects featuring authentication, frontend-backend integration, and Agile collaboration. (Feb 2024 - May 2024)