Abdulaziz Sanuri

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Education

George Mason University, Fairfax, VA – B.S. Computer Science   **Aug 2023 – Dec 2026**
Relevant Coursework: Data Structures (Java), Operating Systems (C/Assembly), Computer Systems (GDB & low-level programming), Mobile Application Development (Java & XML)

Skills

Technical Skills: Java, Python, C, Assembly, HTML, CSS, XML, MySQL, PostgreSQL, UI/UX, Git, GitHub, VS Code, Amazon Web Services, GDB, JUnit, Jira, Agile Development, Linux Command Line, Concurrency, Debugging
Soft Skills: Leadership, Team Collaboration, Coaching, Conflict Resolution, Customer Service, Communication

Certifications

Amazon Web Services, Certified Cloud Practitioner   Expected: December 2025
Amazon Web Services, Certified AI Practitioner   Expected: January 2025

Projects

- **OS/161 Synchronization Project — C:** Implemented kernel-level synchronization primitives, including mutexes and condition variables, inside the OS/161 operating system. Designed a multi-threaded traffic intersection controller coordinating over 100 concurrent vehicles under randomized workloads, ensuring correctness by preventing race conditions, deadlocks, and starvation. Strengthened skills in low-level systems programming, concurrency control, and kernel debugging.

- **Social Network — Java:** Developed a scalable directed graph structure using adjacency maps and implemented algorithms for contact recommendation, influencer detection, and shortest-path traversal using BFS. Designed modular graph components supporting efficient node/edge operations and structural validation. Focused on algorithmic efficiency and clean object-oriented design to model real-world social network behavior.

- **Banking System — Python:** Built an object-oriented banking simulation in Python using custom classes to manage deposits, withdrawals, transfers, and balance tracking. Implemented input validation, error handling, and modular transaction logic to ensure consistent and predictable behavior. Focused on clean class structure and method design while practicing foundational OOP principles.

- **Portfolio Website — HTML/CSS**: Built and deployed a responsive personal portfolio website using semantic HTML and modular CSS to showcase academic projects and technical experience. Designed mobile-friendly layouts, clean UI components, and accessible navigation to ensure consistency across devices while maintaining an easy-to-update code structure.

Experience

Soccer Referee & Coach — U.S Soccer, Fairfax, VA   **Sep 2023 – Present**

- Coach teams as needed, fostering teamwork, sportsmanship, and player development.
- Coordinated scheduling, setup, and communication with parents, supporting weekly operations for 50+ athletes.
- Demonstrated leadership, accountability, and conflict resolution skills in high-responsibility settings.