

Oluwaferanmi's Resume

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EDUCATION

Southern Illinois University Edwardsville (SIUE), B.S. in Computer Science, GPA: 3.8 / 4.0 Jan 2023 - Dec 2026
Relevant Coursework: Data Structures & Algorithms, Software Engineering, Operating Systems, Computer Organization, Machine Learning, Advanced Calculus, Project Management.
Member: SIUE Honors Program, National Society of Black Engineers, Color Stack Virtual Technology Community, SIUE computer science undergraduate society.

TECHNICAL SKILLS

Programming Languages: C++, Python, Java, Swift, JavaScript, Objective-C, MATLAB, HTML, CSS, Bash
Frameworks & Tools: React.js, Angular, Amazon Web Services (AWS), SQL, Junit, Git, Selenium, Appium, Jenkins, Twilio, TestNG, Xcode

WORK EXPERIENCE

ReliaQuest **Tampa, FL**
QA/Automation Internship | Java, JUnit, Selenium, Appium, Jenkins, SQL, Bash, Git, Halo May 2024 - Aug 2024

- Spearheaded unit testing automation of the Blackline platform serving 1,000,000+ active users with Selenium, TestRail, Jenkins, and Appium improving regression test coverage by 42%.
- Mitigated 30+ XSS vulnerabilities by encoding user-inputs cross-site, enhancing security for 500,000+ endpoint users.
- Automated unified configuration systems with bash scripting, integrating app functionality with Halo environments for developers.
- Collaborated with 3 teams of 20+ engineers across different time zones in a fast-paced Agile environment for new testing methods.

Aurora Systems **Chicago, IL**
Software Engineering Intern | C++, Python, SQL, Git, Linux, Docker, Agile Sept 2023 - Jan 2024

- Designed and implemented backend modules for a distributed data processing system, increasing throughput by 34% across core services.
- Developed multi-headed C++ components for real-time analytics pipelines, reducing latency by 70ms per transaction.
- Refactored legacy codebase in Python to improve maintainability, resulting in 48% fewer bugs in production deployments.

SIUE Computer Science Dept **SIUE, IL**
3x Teaching Assistant | Undergraduate teaching Feb 2023 - Present

- Instructed over 70+ students in Data Structures & Algorithms, Discrete Mathematics, and Advanced programming fundamentals covering topics, such as hashing, graphs, trees, sorting, OOP, memory management, design patterns, graph theory, logic, etc.
- Hosted exam review with 100+ attendance, 11% score increase from previous years, and 7% better scores than other TA sections.

PROJECTS

Gemini AI Clone | React.js, Node.js, Express, MongoDB, AWS, CSS Jan 2025 - May 2025

- Architected a conversational AI interface in React that mimics Google Gemini's chat experience, enabling users to ask questions and receive contextual responses in real time.
- Built a Node.js/Express backend that proxies user queries to the Google Gemini API, handling API authentication, rate limiting, and response parsing.
- Designed MongoDB schemas to store conversation history, user profiles, and usage analytics; implemented secure JWT-based login and role-based access controls to protect user data.

Real Time Chat Application - SIUE CS Hackathon 5th Place | React.js, Node.js, Express, Socket.io, MongoDB Oct 2024

- Developed a full-stack chat platform using React on the front end and Node.js/Express on the back end, enabling authenticated users to join multiple "rooms" and exchange text messages instantly.
- Integrated Socket.io for bi-directional real-time communication: implemented "user typing" indicators, online/offline status, and message-delivered receipts.

Timer Challenge Game - Congressional App Challenge 3rd Place | React.js, JavaScript, CSS Nov 2024 - Dec 2024

- Implemented dynamic UI feedback: "Time is running..." state displayed during countdown, real-time progress bars, and a modal that shows accuracy metrics (e.g., ± 200 ms from target).
- Styled components with CSS transitions and responsive layouts to ensure smooth animations across mobile and desktop. Implemented a Level Unlock system: if a user's error margin is under 150 ms, they advance to the next, more challenging level.

LEADERSHIP & AWARDS

Southern Illinois University Edwardsville - School of Engineering **Edwardsville, IL**
Emeritus Dean Hasan Sevim Engineering Scholarship Recipient Jan 2023 - Present

- Recognized for outstanding academic performance and engineering excellence; selected from top students across the school of engineering.
- Provided academic support and peer mentoring to fellow engineering students in advanced subjects including Data Structures, and Logic Design

Southern Illinois University Edwardsville - School of Engineering **Edwardsville, IL**
Meridian Scholar - Full Ride Academic Scholarship Jan 2023 - Present

- Awarded SIUE's most prestigious scholarship based on academic excellence, leadership potential and service impact