PRINCE NNAMDI AJIRI

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Education

Iowa State University – Ames, IA
Bachelor of Science in Software Engineering – May 2025, GPA: 3.45/4.0, x4 Dean's list

Skills

Languages: Java, C, C++, JavaScript, Python, Verilog, Typescript
Web Development: HTML, CSS, MongoDB, Express, React, Node.js, Bootstrap, DevTools
Tools: Git, Eclipse, Visual Studio, Android Studio, Microsoft Office, Jira, SDKs
Systems & Database: MySQL, MongoDB, FPGA, Unit Testing, Operating Systems
Protocols & Practices: HTTP, WebSockets, TCP/IP, Scrum, TDD, CI/CD, REST APIs, Agile methods, Object-Oriented Programming

Projects

Web-Based GPIO Panel – *Developer — May 2025*
- Collaborated in a small team to build a React-based real-time web interface for controlling and monitoring GPIO pins on a Raspberry Pi for Honeywell KCNSC. Implemented CSS and Bootstrap features to enhance the appearance and responsiveness of the UI.
- Utilized WebSockets, HTTP requests, and TCP to ensure low-latency communication and enable smooth, responsive testing and feedback.

Fashion Retail Store Application – *Developer — December 2024*
- Designed and developed a robust Java desktop application to manage inventory, sales, customer profiles, and staff operations using file-based storage.
- Applied core object-oriented principles such as encapsulation, abstraction, polymorphism, and separation of concerns to design a modular and maintainable system architecture.
- Integrated role-based access control, financial reporting, and personalized customer tracking to support multi-user operations securely and efficiently.

Android Events App – *Developer — December 2023*
- Built a dynamic event management application in Java using Android Studio, featuring real-time event listings, calendar, favorites list, and comment threads.
- Integrated WebSockets to enable real-time updates and synchronized comment sections across multiple users.
- Used Git for teamwork and testing, and focused on building a responsive UI with smooth performance.

E-Commerce Website – *Full-Stack Developer — December 2023*
- Designed a product catalog site using the MERN stack with full CRUD, search, filter, and responsive UI.
- Focused on usability, performance, and backend scalability.

Pokémon Game Simulation – *Developer — November 2023*
- Developed a C/C++ grid-based game simulating Pokémon encounters, capturing, and battle mechanics with unique character behaviors and rule sets.
- Designed interconnected game maps with designated east-west and north-south entry paths, dynamically generated on Pokémon entry.
- Implemented Dijkstra's algorithm for intelligent pathfinding across maps, enabling realistic Pokémon movement and enhancing gameplay complexity and immersion.

Professional Experience

Iowa State University, *Desk Assistant*, *Aug 2022 – May 2025*
- Supported 500+ residents by resolving inquiries, logging incidents, and managing records using Microsoft Office and internal databases.
- Maintained front desk operations while balancing security protocols, multitasking, and effective communication.

CyRide, *Transit Driver*, *June 2024 – Present*
- Operated city buses safely and on schedule, assisting passengers, maintaining good communication while adhering to transit regulations.
- Responded calmly and decisively to unexpected situations, contributing to smooth operations and public trust.

Leadership & Involvement

President – African Students Association — *June 2023 – May 2025*
- Managed an executive team and executed high-impact events each drawing 200+ attendees.
- Eliminated $1,500 in debt and secured $10,500+ in sponsorships, achieving a $1,700 surplus.
- Strengthened organizational presence through strategic planning and community engagement.

Member – National Society of Black Engineers, Coalition of Black Men, Black Students Alliance, Black Graduate Students Association
Sports – Intramural Soccer, Intramural Basketball

Summary

Software engineer with a B.S. in Software Engineering, experienced in full-stack and software development, including designing and testing scalable applications. Skilled in building well-structured, maintainable solutions through effective teamwork and/or individual problem-solving.