

Michael-Andre Odusami

New York, United States

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Portfolio

Github: modusami

EDUCATION

- Virginia Tech** Blacksburg, Virginia
Bachelor of Science - Computer Science August 2023 - Spring 2026

EXPERIENCE

- Software Engineer Tutor** Virginia Tech
Blacksburg, VA August 2024 - Present
 - Teaching students on software engineering practices and the fundamentals of **Java** and **OOP** Design
- IT Intern** TDI - Blackstone Portfolio Company
New York City Metropolitan Area May - Aug 2024
 - Developed a **Java** application to automate email communication processes, replacing an outdated Microsoft solution, improving the reliability of stakeholder notifications and reduced the need for manual interventions by 25%.
 - Implemented **Python**-based automation scripts to pre-process and clean data.
 - Utilized Microsoft Power Automate to streamline repetitive tasks, Power Apps to develop custom applications, and Power BI for data visualization and reporting, driving data-driven decision-making.
- Software Engineer Intern** ipNX
Lagos, Nigeria Jul - Aug 2023
 - Led the UI/UX designing and implementing a new, more accessible customer wizard-style form
 - Implemented **React** and PHP for data sanitation and security preventing potential security breaches such as XSS
 - Optimized the customer request and incident resolution process, leading to a 15% decrease in solution time and improved overall efficiency

PROJECTS

- Mapability - VTHACKS Winner Project (CoStar Best Real Estate Hack)** View Project
 - Developed an app allowing underrepresented groups to review buildings based on accessibility and friendliness metrics
 - Implemented user authentication and database management using **Propel Auth**, **MongoDB** and **Docker** for backend infrastructure
 - Created a responsive frontend using **Next.js**, **ShadCN**, **TailwindCSS**, and integrated **Google Maps API**
 - Incorporated **AI-based activity planning** using **OpenAI's LLM** to generate personalized and accessible journey plans
 - Utilized **FastAPI** for creating and managing APIs, and deployed the backend on **AWS Lambda**
- Bytes - HooHacks Hackathon Winner (Best Accessibility Hack)** View Project
 - Developed a short-form news application inspired by modern social media interfaces using **React Native**
 - Integrated **NewsAPI** to source consistent news headlines across various categories
 - Implemented user authentication and crucial news posting for administrators using **PropelAuth**
 - Utilized **MongoDB** for backend data storage and **Cloudinary** for image storage and delivery
 - Created a cross-platform mobile app compatible with both **Android** and **iOS** using **Expo Go** for simulation
- Expense Tracker CML App** View Project
 - Designed and Implemented a CRUD functionality CML expense tracker that manually keeps track of expenses made
 - Utilized: **Java**, **Spring Boot**, **Hibernate**, **MySQL**, **Spring Data JPA**
- Comic Book Processor** View Project
 - Developed a comic book CSV processor using **C programming language** to load, display, and manipulate comic book data.
 - Implemented dynamic memory management, struct-based data organization, and file I/O to efficiently handle comic book data while ensuring memory safety by eliminating leaks and invalid accesses using tools like **Valgrind**

SKILLS & CERTIFICATIONS

- Programming Languages** C, Java, Python, Typescript, Javascript, C++
- Frameworks** Spring Boot, React, Next.JS, Vite, Tailwind, React Native, Node, ExpoGo
- Tools/Platforms** Git, Postman, Microsoft Power Apps & Automate, Microsoft Excel, AWS Lambda, Unity, Docker, Linux, Valgrind
- Database** MySQL, MongoDB, PostgreSQL, REST APIs, ORM
- Certifications** CodePath Intermediate Web Development