FREDA NYARKO

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EDUCATION

Mississippi State University – Mississippi, USA   **Graduating** May 2027
Major: Computer Science   **Honors:** President's List   **GPA:**3.87
Relevant Coursework: Introduction to Programming (Python), C++,Data structures , Computer Organization, Calculus, Discrete Structures, System programming(C*), Methods and tools in Software Development (Fall 2025*)

WORK EXPERIENCE

PulseWaves Technologies – Remote   *SQL|Django /CI/CD*   **Jun 2025 - Aug 2025**
Software Engineer Intern
- Enhanced the task assignment workflow by building a new feature that allowed users to tag and assign project tasks dynamically using React, Django, and PostgreSQL, improving task load times by 25%.
- Implemented role-based permissions and request throttling, optimized backend APIs with JWT authentication reducing unauthorized access and system errors by 90%.
- Deployed updates via Docker to their staging environment, streamlined rollback procedures, and improved deployment reliability by 60% using AWS-hosted services and CI/CD pipelines.

Innovex Tec - Remote   *Tailwind CSS | React*   **Jan 2025 -May 2025**
Software Engineer Intern
- Built a responsive internal dashboard using React enabling enterprise clients to track 10+ key performance metrics in real-time, resulting in a 40% increase in data-driven decision making.
- Developed 3 client-facing features using React and Tailwind CSS, improving product usability by 25% as measured by user satisfaction surveys.
- Orchestrated seamless integration of frontend components with Django services with the backend engineering team, enabling real-time data synchronization and increasing user engagement by 85%.

Envision by Worldstrides – California   *Python |C++| ARCGIS*   **June 2024-Aug 2024**
Stem & Technical Instructor Intern
- Facilitated 100+ technical projects focused on AI integration with drones, ARCGIS, object-oriented programming, achieving a 90% completion rate and giving students practical exposure to real-world tech applications.
- Instructed 50+ students in programming courses including Python and C++, resulting in an 88% improvement rate in coding fundamentals and advanced concepts.
- Provided one-on-one mentorship to help students overcome complex coding challenges while fostering strong problem-solving and critical-thinking skills**.**

PROJECTS

Performance Monitoring Platform |*React |Tailwind CSS*   **https://github.com/Fredany07/Dashboard**
- Built an ecommerce activity monitoring dashboard visualizing revenue, orders, user activity, and page views, consolidating 100% of key business metrics into one platform.
- Implemented interactive charts and graphs with Recharts, reducing manual reporting time by 40%. Designed progress bars that improved clarity of sales and customer activity insights, boosting team adoption by 60%.

ZEST   *React| Django*   **https://github.com/Fredany07/ZEST**
- Developed a full-stack web app to track inventory and reduce waste, leveraging Django for real-time APIs and React for a dynamic user interface.
- Engineered a PostgreSQL database schema with SQLAlchemy and integrated a React dashboard featuring interactive charts for real-time inventory insights.
- Built a secure, role-based access control system for multi-user management within the application.

Amazon-clone   *|JavaScript|HTML|CSS*   **https://github.com/Fredany07/Amazon-clone**
- Built a fully featured frontend Ecommerce web app supporting product listing and shopping cart functionality.
- Integrated dynamic user interactions to enhance the shopping experience including browsing, adding to carts and checkout flows

LEADERSHIP/ INVOLVEMENT

Resident Advisor   **Mississippi State University**   **Aug-2025 -Present**
- Fostering a positive and inclusive environment for 50+ residents by organizing social and educational events.
- Serving as a primary point of contact and mentor, providing guidance on academic and personal issues.

CodePath   **Jun 2025-Aug 2025**
- Completed 12-week program focused on data structures, algorithms, and coding interview strategies.
- Practiced mock technical interviews and LeetCode-style problem solving in Python.

SKILLS AND CERTICATIONS

Programming languages: Python, C++, JavaScript,HTML,CSS3
Technologies & Frameworks: React, Tailwind CSS, Flask, Django, SQL (SQLAlchemy, Postgre), AWS, CI/CD, Git
Certifications :CSA(ServiceNow Certified System Administrator), CodePath(TIP 102)