Ayo Ogunade

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TECHNICAL SKILLS

- **Programming Languages**: Java, Python, C/C++, JavaScript   • **Web Development**: HTML, CSS, React, Bootstrap, Node.js, Flask
- **Tools**: Google Looker Studio, Google Apps Script, Git, JMapViewer, OpenStreetMap   • **Databases**: MySQL, MongoDB

PROJECTS

Amazon Clone
- Developed a full-stack e-commerce platform mimicking Amazon's product listing and ordering system.
- Built the frontend using **React** and deployed it on GitHub Pages; implemented the backend with **Python** and **Flask** for server-side processing.
- Designed RESTful API endpoints to manage product data in a **MongoDB** database, enabling seamless CRUD operations for 1,000+ simulated users.
- Integrated email confirmation functionality using **Flask** to simulate real-world transaction workflows.

Collaborative Text Editor (For more info: [Collaborative Editor](#)**)**
- Engineered a real-time collaborative text editor with a full-stack architecture: **React** frontend and **Node.js** backend powered by **Express**.
- Implemented **WebSocket** protocol to enable simultaneous editing by multiple users across different browser sessions.
- Deployed the backend on Render and frontend on GitHub Pages, ensuring CORS security and automatic reconnection handling for a seamless user experience.

Trip-path Animator (For more info: [PathAnimator](#)**)**
- Created a GPS path animation tool using **Java** with a customizable GUI, enabling users to plot, animate, and visualize routes from CSV data.
- Integrated **JMapViewer** and **OpenStreetMap** for interactive mapping and real-time route animations.
- Packaged the application with a .jar file, sample dataset, and marker image for easy deployment and accessibility.

Music Review Website (For more info: [ayotalksmusic](#)**)**
- Built a music review platform using **HTML, CSS, and JavaScript**, allowing users to view, rate, and discuss albums.
- Enhanced user engagement with interactive UI components and JavaScript-powered data filtering.
- Exploring API integrations to dynamically pull album data and cover art for a richer user experience.

EXPERIENCE

Database Project Coordinator| The Big Event at The University of Oklahoma **|** September 2023 – May 2024
- Optimized engagement for 5,000+ volunteers and 200+ jobsites by implementing an efficient online volunteer registration database using Excel, MySQL, and Google Looker Studio.
- Streamlined tracking of volunteer participation, reducing registration processing time by 25%.
- Collaborated with team members to ensure accurate data management and reporting for the largest community service organization at OU.

EDUCATION

The University of Saskatchewan | *B.S in Computer Science*   Saskatoon, SK **| Expected May 2027**
CodePath: Technical Interview Prep | Student **|** September – November 2024
- Optimized engagement for 5,000+ volunteers and 200+ jobsites by implementing an efficient online volunteer registration database using Excel, MySQL, and Google Looker Studio.
- Streamlined tracking of volunteer participation, reducing registration processing time by 25%.
- Collaborated with team members to ensure accurate data management and reporting for the largest community service organization at OU.

The University of Oklahoma (OU) | *B.S in Computer Science*   Norman, OK **| 2023 - 2024**
- Selected for the 63rd President's Leadership Class (top 1% of incoming freshman class).

EXTRACURRICULARS

- Sankofatech Achievers In Technology Scholar (2% of 1000+ applicants)
- Ron Brown Scholars Captain (1% of 5000+ applicants)