

Wesley Kamau

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EDUCATION

The Ohio State University

Columbus, OH

Bachelor of Science in Computer Science and Engineering

May 2026

Relevant Coursework: Software Components, Linear Algebra, Discrete Structures, Statistics, Multi-variable Calculus

GPA: 3.2

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, C++, HTML5, CSS, MATLAB, LabVIEW, Excel VBA, LaTeX

Software: Eclipse, Visual Studio Code, Visual Studio, Figma, Adobe Premiere Pro, Adobe Photoshop

Frameworks: Spring Boot, Flask, Tailwind CSS, JUnit, WordPress

Developer Tools: Node.js, Git, GitHub, Heroku, MongoDB, JSON, Linux, GridFS, Google Colab

Libraries: React, TensorFlow, Selenium, NumPy, Matplotlib, JSoup, Pillow, pandas, Pyaudio, Spotify

PROJECTS

NowPlaying | *JavaScript, React, Python, Flask, Shazam API*

June 2024 - Present

- Created a full-stack app that utilizes song recognition to visually display the record playing on my record player
- Integrated the Shazam API to fetch and display the latest song information, including album details and cover art
- Developed a dynamic user interface in React, utilizing state management with hooks, CSS transitions for smooth animations, and integrated Vanta.js for an enhanced visual experience.
- Ensured seamless communication between the React frontend and Flask backend through a RESTful API, enabling efficient data retrieval and updates

MemoryMap | *JavaScript, React, Node.js, Tailwind, Java, Spring Boot, MongoDB*

May 2024 - Present

- Developed a full-stack React app allowing users to upload images and create custom games with location metadata
- Implemented multi-step forms in React to streamline the game creation process with file uploads, metadata extraction, and customization options
- Designed and deployed a Spring Boot backend with MongoDB and GridFS for storing game data and image files
- Implemented a RESTful API for seamless communication between the React frontend and Spring Boot backend

Matrix (Linear Algebra) | *Java*

March 2024 - May 2024

- Developed a comprehensive Java application to perform various matrix operations, including addition, subtraction, multiplication, inversion, and determinant calculation, with thorough testing to ensure accuracy and reliability
- Designed user-friendly interfaces for inputting matrices and displaying results, enhancing usability

StyleSwap | *Python, TensorFlow, Google Colab*

February 2024 - March 2024

- Implemented neural style transfer using TensorFlow and Keras, harnessing their deep learning capabilities
- Integrated Spotify for retrieving album cover images and PIL for handling image manipulation and output

EXPERIENCE

Audiovisual Production Assistant

August 2023 - Present

The Ohio State University

Columbus, OH

- Played a pivotal role in training and mentoring new team members, ensuring seamless onboarding and efficient delegation of tasks
- Demonstrate exceptional problem-solving skills by performing comprehensive troubleshooting, repair, and adjustment of audiovisual equipment and systems to maintain uninterrupted service

LEADERSHIP AND PROFESSIONAL DEVELOPMENT

Career Prep Fellow

January 2024 - Present

Management Leadership for Tomorrow

- Accepted into a selective 18-month professional development program for high-achieving diverse talent
- Complete business case studies and assignments to grow leadership and technical skills
- Attend conferences hosted by industry leaders such as Deloitte, LinkedIn, and Target

Additional Organizations: Code 4 Community, ColorStack, National Society of Black Engineers