

Wesley Kamau

614-779-4581 | kamau.10@buckeyemail.osu.edu | [linkedin.com/in/WesleyKamau](https://www.linkedin.com/in/WesleyKamau) | github.com/WesleyKamau
www.WesleyKamau.com

EDUCATION

The Ohio State University

Bachelor of Science in Computer Science and Engineering

Columbus, OH

December 2026

Relevant Coursework: Software Engineering, Linear Algebra, Data Structures & Algorithms, Artificial Intelligence

GPA: 3.38

EXPERIENCE

Software Engineering Intern

J.P. Morgan Chase

June 2025 – August 2025

Columbus, OH

- Contributed to the development of Blueprint, a full-stack internal application enabling Branch Managers to create and manage performance plans across **4,500+** Chase branches
- Built frontend using an internal React-based framework and TypeScript, following internal design standards for accessibility and compliance
- Developed secure backend services with Spring Boot, integrating internal authentication systems and managing data with an H2 SQL database
- Integrated a proprietary large language model API to generate customized summaries and coaching guidance based on user-generated inputs and organizational context
- Supported Agile development practices through rotational leadership, leading stand-ups, managing JIRA workflows, and collaborating via pair programming

Data Analysis & SharePoint Online Integrator Intern

NASA (National Aeronautics and Space Administration)

January 2025 - May 2025

Huntsville, AL

TECHNICAL SKILLS

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

Frameworks & Libraries: React, Next.js, Spring Boot, Flask, JUnit, Mockito, Tailwind CSS, TensorFlow, PyTorch, Diffusers, Matplotlib, Pillow, Selenium, Playwright

Frontend Engineering: Accessibility, Performance Optimization (Memoization, Lazy Loading), Responsive Design

Developer Tools: Git, GitHub, GitHub Actions (CI/CD), Node.js, Vercel, Heroku, MongoDB, AWS S3, Cloudflare R2, JSON, Linux, Google Colab, Eclipse

Engineering Practices: Agile/Scrum, Code Reviews, Technical Documentation, Environment Variable Management

PROJECTS

MemoryMap | *Next.js, TypeScript, Aply, Cloudflare R2, Google Maps API*

May 2024 - Present

- Engineered full-stack geolocation game where users create custom games from personal photos, deployed on Vercel
- Migrated image storage from MongoDB GridFS to Cloudflare R2, implementing presigned URLs for secure uploads
- Implemented EXIF parser to extract GPS data from HEIC/JPEG uploads, automating custom game creation
- Developed real-time multiplayer party mode with Aply WebSocket channels, enabling **10+ concurrent players** to compete Kahoot-style with QR code joining, custom avatars, and server-authoritative timing for sub-200ms sync
- Integrated Google Maps JavaScript API with Places Autocomplete for location search, animated scoring zones with polylines, and clustering algorithm to prevent overlapping markers

Wesleygram | *Next.js, TypeScript, Python, Stable Diffusion XL, Cloudflare R2*

December 2025

- Engineered full-stack web application leveraging a custom SDXL LoRA model for inference and inpainting, generating **7,500** ML-transformed photos and attracting **3,700+** social media views with **200+** unique visitors
- Trained custom SDXL LoRA model on **170** curated subject images with regularization data for **2,200** training steps using Google Colab A100 GPUs, achieving consistent facial transformation quality
- Built automated inference pipeline with batch processing and prompt engineering to transform **3,300+** Instagram profile photos, implementing error handling and quality validation
- Reverse-engineered Instagram's GraphQL API and modified a Chrome extension to acquire user data
- Integrated Cloudflare R2 and AWS S3 for distributed image storage and CDN delivery across **10,000+** operations