

Wesley Kamau

wesley@wesleykamau.com | linkedin.com/in/WesleyKamau | github.com/WesleyKamau | www.WesleyKamau.com

SUMMARY

I'm a creative, quality-driven software engineer, and I'm passionate about turning my ideas into reality. That spans everything from useful internal tools to games and other projects I make in my own time. I care a lot about building things well, I approach my work from the end user's perspective, and I love working with people. I've been using AI to expand on what I can build and move faster.

EDUCATION

The Ohio State University

Bachelor of Science in Computer Science and Engineering

Columbus, OH

Expected May 2027

- **Relevant Coursework:** Software Engineering, Linear Algebra, Data Structures & Algorithms, Artificial Intelligence
- **GPA:** 3.38

EXPERIENCE

Software Engineering Intern (Returning)

June 2026 – August 2026

J.P. Morgan Chase

Columbus, OH

- Shipped UI and LLM-summarization features to an internal cybersecurity platform for tracking and managing software vulnerabilities, used firm-wide by **tens of thousands** of developers.
- Built an autonomous multi-agent testing pipeline that converts Jira tickets, code context, and branch diffs into executable Playwright/Gherkin tests through a scenario-to-writer-to-critic agent loop with automated linting and self-correction.
- Designed an onboarding agent that autonomously crawls repositories and generates deterministic YAML startup configs, enabling fully end-to-end autonomous test runs across multiple internal applications.
- Independently built an internal web framework that lets developers write React-style Preact/TSX and deploy interactive static sites in **~20 seconds**; adopted across teams, with member-built tools and docs reaching an estimated **5,000+** internal viewers.
- Led a **9-person** team as Product Owner at the firm's annual hackathon, building a tool that enables secure mobile, agentic coding on the internal network (a phone-accessible single-page app, a VS Code extension, and a local MCP server that reroutes tool approvals to the developer); finished as the **highest-placing intern-led team firm-wide**, beating **200+** teams composed largely of full-time engineers.

Software Engineering Intern

June 2025 – August 2025

J.P. Morgan Chase

Columbus, OH

- Contributed to a full-stack internal application enabling Branch Managers to create and manage performance plans across **4,500+** branches.
- Built the frontend with an internal React-based framework and TypeScript, and developed secure Spring Boot backend services integrating internal authentication with an H2 SQL database.
- Integrated a proprietary large language model API to generate customized summaries and coaching guidance based on user inputs and organizational context, while supporting Agile practices through rotational stand-up leadership and pair programming.
- Earned **1st Place, Best Final Presentation** among the summer intern cohort.

Data Analysis & SharePoint Online Integrator Intern

January 2025 – May 2025

NASA (National Aeronautics and Space Administration)

Huntsville, AL

- Built Power BI/Power Query dashboards and a new SharePoint Online intranet for the Office of Strategic Analysis & Communications, led a Power BI training class, and automated team workflows using Microsoft Power Automate and Power Apps.

PROJECTS

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

December 2025

- Engineered a full-stack web application leveraging a custom SDXL LoRA model (trained on **170** curated images using Google Colab A100 GPUs) for inference and inpainting.
- Built an automated inference pipeline with batch processing and integrated Cloudflare R2 and AWS S3 for distributed image storage.

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

May 2024 – Present

- Engineered a full-stack geolocation game where users create custom games from personal photos.
- Developed a real-time multiplayer party mode with Ably WebSocket channels, enabling **10+** concurrent players.

Additional projects and full portfolio at www.WesleyKamau.com

TECHNICAL SKILLS

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

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

Developer Tools & Practices: Git, Model Context Protocol (MCP), Gherkin/Cucumber, Agile/Scrum, Code Reviews, CI/CD