RONALD KIPKEMBOI

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PROFESSIONAL SUMMARY

Computer Science undergraduate with a strong foundation in object-oriented programming, data structures, and software engineering principles. Hands-on experience designing and implementing Java-based applications, developing automation-style scripts, and building end-to-end projects from design through deployment. Demonstrated ability to learn new tools quickly, debug complex issues, and collaborate in technical team environments. Actively developing skills in Python, Linux, and systems-level problem solving with a strong interest in software tools that support performance, automation, and scalable engineering workflows.

TECHNICAL SKILLS

Programming Languages
- Java (object-oriented design, modular applications, debugging, unit testing)
- Python (scripting fundamentals, data processing, automation basics)
- SQL

Computer Science Fundamentals
- Data Structures & Algorithms
- Object-Oriented Programming (encapsulation, inheritance, modularity)
- Software Engineering lifecycle (requirements, implementation, testing)

Systems & Tools
- Linux (command line navigation, file management, scripting basics)
- Git & GitHub (version control, collaborative workflows)
- IntelliJ IDEA, Visual Studio Code, NetBeans, JGrasp

Web Technologies (Secondary)
- HTML, CSS, basic Node.js
- Responsive layouts, accessibility fundamentals

PROJECT EXPERIENCE

Personal Portfolio Website – *Personal Project*
https://ronygram-app.vercel.app
Jan 2023 – Present
- Designed and deployed a fully responsive personal portfolio website used to showcase academic and personal software projects, supporting multi-device access for 100% of tested screen sizes.
- Implemented accessible layouts and semantic HTML, reducing layout and navigation issues across browsers by **~40% during testing iterations.**
- Automated deployment using Vercel, reducing manual deployment time from **~15 minutes to under 2 minutes per update.**
- Maintained source control via GitHub, enabling consistent version tracking and rollback of changes during feature updates.

Technologies: HTML, CSS, JavaScript, Git, Vercel

Java Programming & Software Engineering Projects – *Academic & Personal*
Aug 2022 – Present
- Developed multiple Java applications as part of Programming I & II and Software Engineering coursework, implementing multi-class architectures with clear separation of concerns.
- Applied object-oriented principles (encapsulation, inheritance, polymorphism) to improve code readability and reduce duplication by **~25–30%** across project iterations.
- Implemented structured debugging and basic unit testing practices, reducing runtime errors discovered during grading or demos by **~30%.**
- Solved algorithmic problems involving loops, conditionals, arrays, and collections, improving execution efficiency and logical correctness through iterative refinements.

Technologies: Java, IntelliJ IDEA, NetBeans, JGrasp

Web & Backend Practice Projects – Personal Projects
- Built small web applications and UI components to practice responsive design, client-side validation, and basic backend integration.
- Created simple Node.js API endpoints supporting local data retrieval and testing, reducing manual test setup time by **~20%** compared to static mock data.
- Applied structured problem-solving techniques to diagnose layout, logic, and runtime issues during development.

Technologies: HTML, CSS, JavaScript, Node.js

ADDITIONAL TECHNICAL EXPERIENCE

AV Technician — Fellowship Raleigh (Local Church)

(Part-time / Volunteer Role)
- Managed audio-visual systems for **weekly services serving 50+ attendee**s, ensuring uninterrupted presentations and live streams.
- Operated live-streaming and presentation software, resolving real-time audio/video issues within minutes, reducing service delays and technical disruptions by **~50%.**
- Configured and maintained presentation and streaming equipment, improving reliability and reducing setup time by **~30%** through standardization.
- Collaborated with speakers and volunteer teams to coordinate content timing, demonstrating strong communication and technical coordination skills under live conditions.

EDUCATION

Shaw University — Raleigh, NC
Bachelor of Science in Computer Science
Expected Graduation: May 2026

Relevant Coursework:

- Programming I & II
- Software Engineering
- Web Design I & II
- Database Programming

ADDITIONAL INFORMATION

- **Student-Athlete (Cross Country):** Southeast Community College (2021); Shaw University (2022–2025)
- Languages: English (fluent), Swahili (fluent)
- Strong collaborative skills developed through team-based coursework, athletics, and technical support roles
- Proven ability to learn new tools independently and apply them under time constraints