

# Kinuthia Wachira

Cyber Security and Software Engineer

📍 Nairobi | ☎️ 0741466076 | @ iankinuthia00@gmail.com | 🔗 <https://iankportfolio.netlify.app/>

## Profiles

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🔗 [kish-00](#)

Github

🔗 [kinuthia-wachira](#)

LinkedIn

## Summary

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As a driven and detail-oriented Computer Science undergraduate, I am eager to apply my technical skills and passion for software engineering to a challenging role in the industry. With a solid foundation in programming languages such as JavaScript, Python, and C++, I am well-equipped to develop software solutions that meet the needs of end-users while adhering to established best practices. Additionally, my experience as an intern and working on group projects has honed my collaboration and communication skills, making me an effective team player. I am excited to leverage my skills and knowledge to contribute to innovative and impact-full projects as a software engineer

## Experience

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**a-r-e-d**

**2023-05-23 -**

Web developer - Intern

🔗 <https://aredgroup.com/>

Collaborate with the development team to write, test, and maintain code for websites and web applications Work on the design and functionality of the user interface, ensuring that websites are visually appealing, responsive, and user-friendly. Help identify and resolve issues and bugs in web applications, ensuring a smooth user experience. Using version control systems (e.g., Git) to manage code and collaborate effectively with team members.

**Eclectics International**

**2022-03-01 - 2022-06-30**

Attachee

🔗 <https://eclectics.io/>

As a back-end engineering attache for Eclectics International, I played a pivotal role in the development and implementation of a movie rental API. Leveraging my expertise in back-end technologies such as Java Spring, JWT, Spring Security, MySQL, Docker, Docker hub, Git and Github, Postman. I worked closely with the development team to design and implement scalable and robust solutions for managing movie rentals. My responsibilities included developing APIs, designing and implementing databases, and conducting thorough testing to ensure the system's reliability and functionality. Overall, my experience in back-end engineering and my dedication to delivering high-quality solutions make me a valuable asset to any team.

**Pergamon Group**

**November 2023**

Technical Intern

Nairobi

🔗 <https://pergamongroup.com/>

My role encompasses training, project implementation, on-site support, and proactive communication with clients. The challenges encountered during the Type C installations underscore the importance of adaptability and collaborative problem-solving in the ever-evolving landscape of technology integration. Moving forward, I remain dedicated to delivering high-quality solutions and providing exceptional support to our clients

## Certifications

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### Cisco Certified Ethical Hacker

2024-4-01

Cyber Sujaa

<https://cybershujaa.co.ke/>

### Introduction to Ethical Hacking

March 2023

Great Learning

<https://greatlearning.com>

## Projects

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### Movie Renting API

2022-03-01 - 2022-05-01

An Application Programming Interface for movie renting

<https://github.com/kish-00/Movierental-api>

Movierenting api built with Spring Boot Security JWT Access Token This project encompasses two security concepts, Authentication. Authentication is verifying who the user is, do we know them? Do they exist in the database? Are their credentials correct? If they are known to you then allow them into the application and give them a token which they will use to access resources (API endpoints) in the application.

### N-body\_Simulation

2022-03-09 - 2022-11-30

An exploration into the N-body problem and the Barnes-Hutt algorithm

[https://github.com/kish-00/N-body\\_Simulation](https://github.com/kish-00/N-body_Simulation)

I created an n-body simulator to explore the chaotic effects of having more than two bodies interacting gravitationally. An Exploration of the N-Body Problem In our universe, there are countless systems containing more than one body. Our solar system alone contains a star and eight (or nine, depending on who you ask) planets, along with many smaller asteroids and debris. Our galaxy is comprised of around 200 billion stars and a super-massive black hole at its center. Where, then, lies the dilemma of having more than two bodies in orbit? Well, these systems essentially function as independent binary systems overlaid on top of one another. Our solar system is practically a bunch of binary systems between the sun and an individual planet; the planets themselves are not massive enough to cause the sun to move very much and are far enough away from each other that they do not interact much with one another. The n-body problem comes into play when the bodies in the system are all of comparable mass and interact with each of the other bodies in the system.

### Graph Theory Visualizer

2023-01-03 - 2023-04-01

A website that visualizes graphs and graph algorithms

[https://github.com/kish-00/graph-theory\\_visualizer](https://github.com/kish-00/graph-theory_visualizer)

An open-source tool to visualize operations that can be done in a graph, such as Breadth First Search, Depth First Search, Kruskal algorithm and Dijkstra's algorithm. The goal was to have a continuous display of the various operations, so that if the graph changes while the operation is in progress, the display changes too. Project made using p5js and TypeScript.

### Kenya Airways Design

2022-11-01 - 2023-01-18

A sample web design for Kenya Airways

[https://github.com/kish-00/KenyaAirways\\_Design](https://github.com/kish-00/KenyaAirways_Design)

Develop a Kenya Airways online system considering the following factors HCI factors e.g usability, effectiveness, efficiency. User interface design issues. Human limitations factors (color, vision, touch etc). Evaluation process towards its usability.

## Education

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### Moi University

2018-09-01 -

Computer Science

Bachelor of Science in Computer Science

Pending

<https://www.mu.ac.ke/index.php/en/>

### Kanunga High School

2014-01-01 - 2017-11-30

KCSE

Kenya Certificate of Secondary School Education

B+

As a Kanunga High School student, I excelled academically, achieving a B+ in KCSE and A grades in both Math and Chemistry. I also had the privilege of representing my school in various math and science competitions, where I showcased my talents and passion for these subjects. Through my coursework and extracurricular activities, I have developed strong analytical and problem-solving skills, as well as a deep understanding of mathematical and scientific principles. Additionally, I have honed my communication and teamwork abilities by collaborating with peers on group projects and presentations. Overall, my education at Kanunga High School has provided me with a solid foundation in math and science, as well as valuable skills that I am eager to apply in future academic and career pursuits.

## Volunteering

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### Independent Electoral and Boundaries Commission

2022-08-01 - 2022-09-01

Clerk

<https://www.iebc.or.ke/>

As a dedicated volunteer clerk for the Independent Electoral and Boundaries Commission (IEBC) during the August 2022 elections in Kenya, I played a crucial role in ensuring the smooth and fair administration of the electoral process. With a keen eye for detail and a commitment to upholding the principles of transparency and accountability, I assisted in the voting process, ballot counting, and other essential tasks. Through my work with IEBC, I gained valuable experience in election management and strengthened my communication and organizational skills. Additionally, I developed a deep appreciation for the importance of civic engagement and the role that responsible voting plays in shaping the future of our nation. Overall, my experience as a volunteer clerk with IEBC has equipped me with the skills and knowledge necessary to succeed in any team-oriented and detail-oriented role.

### KNBS

2019-08-01 - 2019-09-01

enumerator

<https://www.knbs.or.ke/>

As a dedicated volunteer enumerator for the Kenya National Bureau of Statistics (KNBS) during the August 2019 census, I contributed to the successful completion of one of the largest and most important data collection exercises in Kenya's history. With a strong attention to detail and a commitment to accuracy, I conducted household surveys, gathered demographic data, and recorded vital statistics. Through my work with KNBS, I gained valuable experience in data collection and management, as well as enhanced my communication and interpersonal skills. Additionally, I developed a deep appreciation for the importance of data-driven decision-making and the role that accurate census data plays in shaping policies and programs that benefit all Kenyans. Overall, my experience as a volunteer enumerator with KNBS has equipped me with the skills and knowledge necessary to succeed in any data-oriented and community-focused role.

Skills

Vue

Professional



React

Expert



Front-end Web Development

professional



Object-oriented programming

Expert



Python

Expert



Docker

Proffessional



Git and Github

Expert



Linux

Professional



Strategic Thinking

Expert



Artificial Intelligence



References

Antony Chege

Supervisor Pergamon Group

My software team lead at Pergamon Group

Alex Maina

Supervisor-Eclectics

My supervisor during my attachment as a back-end attache at Eclectics International

Loice Choge

Supervisor - IEBC

My supervisor during the Aug 2022 general elections in Kenya.

Languages

English

Expert



Swahili

Expert



Interests
Artificial Intelligence
Data Science
Programming
Cryptocurrency
Science and Technology
Machine Learning
Fine art
Literature