

Elias Warutere Gathoni

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Professional Summary

Final-year Biochemistry undergraduate at the University of Nairobi with a strong interdisciplinary foundation in life sciences and information technology. Experienced in computational biology research, specifically molecular docking, alongside practical skills in web development and Python programming. Proven ability to bridge the gap between scientific research and technical solutions, demonstrated through an IT internship and self-directed projects in AI and software development.

Education

University of Nairobi | Nairobi, Kenya *Bachelor of Science in Biochemistry* | Expected Graduation: 2026

Technical & Scientific Skills

- **AI & Data Analysis:** Python, Machine Learning Fundamentals, Deep Learning Concepts, Model Performance Metrics (Confusion Matrix, F1 Score, Precision, Recall/Sensitivity, Specificity).
- **Scientific Research:** Molecular Docking, Computational Biology, Biochemistry, Data Analysis, Scientific Literature Review.
- **Web Development:** HTML, CSS, JavaScript, Vercel (Deployment).
- **Tools & Platforms:** Git/GitHub, VS Code, MS Office Suite.
- **Languages:** English, Swahili, Kikuyu.

Experience

Dejavu Technologies | Nairobi, Kenya *IT Intern* | July 2024 – December 2024

- Provided comprehensive IT support and technical assistance to internal teams and clients.
- Programmed, installed, and configured eTIMS machines for client businesses, ensuring tax compliance and system functionality.
- Conducted training sessions for clients on hardware usage and troubleshooting.
- Collaborated with the technical team to troubleshoot network and software issues, improving system uptime.

Projects

Molecular Docking of Garlic Secondary Metabolites | *Academic Project*

- Conducting a theoretical final-year project analyzing the molecular docking of secondary metabolites found in garlic (*Allium sativum*) against *Aspergillus flavus* proteins.
- Utilizing computational tools to simulate interactions and predict the efficacy of natural compounds as potential antifungal agents.

Web Development Portfolio | *Personal Project*

- Designed and deployed a personal portfolio website using HTML, CSS, and JavaScript, hosted on Vercel.
- Showcases self-taught front-end development skills and a repository of technical projects.

Certifications & Job Simulations

Introduction to Artificial Intelligence | *Simplilearn*

- **Date:** January 17, 2026 | **Credential ID:** 9725975
- Completed a comprehensive course covering the fundamentals of Machine Learning and Deep Learning workflows.
- Mastered performance metrics for model evaluation, including the application of Confusion Matrices, Accuracy, Precision, Recall, and F1 Scores to minimize false positives in data analysis.

LifeArc Life Sciences Job Simulation | *Forage*

- Completed a job simulation focused on biology research and data analysis (January 2026).
- Simulated real-world tasks involving the analysis of scientific data and research methodologies.

Python for Data Analysis

- Acquired certification in Python programming specifically tailored for data analysis applications.