JOY WANJA NJOROGE

Software Developer | Data Scientist | Actuarial Analyst

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☐ Website: [Portfolio](#) | [GitHub](#) | [LinkedIn](#)

PROFESSIONAL SUMMARY

Innovative software developer and data scientist with a strong actuarial foundation. Proficient in full-stack web development, Python programming, and data analysis. Experienced in network simulation using Mininet and building machine learning models for real-world applications. Currently completing a Data Science Certification at WorldQuant University while gaining hands-on experience at Jubilee Insurance.

EDUCATION

Bachelor of Science in Actuarial Science *(2019 – 2025)*

Mount Kenya University

- Key Courses: Stochastic Processes, Decision Theory, Database Systems, Survival Analysis, Pension Schemes

Data Science Certification *(2025 – Ongoing)*

WorldQuant University

- Specializing in machine learning, predictive modeling, and data analysis

Software Development Certification (2025 – Ongoing)

Moringa School

- Specialized in full-stack web and software development

TECHNICAL SKILLS

- ☐ **Programming:** Python, JavaScript, HTML, CSS, SQL
- ☐ **Web Development:** React.js, Flask, Node.js
- ☐ **Data Science & Analysis:** Pandas, NumPy, Scikit-learn, Matplotlib
- ☐ **Cloud & Networking:** Mininet, Linux (Ubuntu, Parrot OS), Virtualization
- ☐ **Version Control & Tools:** Git, GitHub, VScodium, Jupyter Notebook

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WORK EXPERIENCE

Software Developer | Freelancer *(2024 – Present)*

- Built and deployed full-stack web applications using Python and JavaScript.

- Developed an interactive **Habit Tracker App** with user authentication and a calendar view.

- Designed and implemented predictive analytics models for real estate pricing in Buenos Aires and Mexico.

- Created Mininet network simulations for testing network security and performance.

Actuarial Intern | Jubilee Insurance *(2025 – Present)*

- Conducting actuarial analysis and data-driven decision-making.

- Assisting in risk assessment and financial modeling.

- Automating data processing tasks using Python.

PROJECTS

☐ **Habit Tracker App** – A single-page application with user authentication and data visualization.
☐ **House Price Prediction Model** – Developed machine learning models for real estate valuation.
☐ **Network Security Simulation** – Used Mininet to analyze and test network vulnerabilities.

SOFT SKILLS

☐ Analytical Thinking | ☐ Problem-Solving | ☐ Adaptability | ☐ Team Collaboration

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CERTIFICATIONS & TRAINING

- Data Science Certification (WorldQuant University, 2025)

- Software Development (Moringa School, 2025)

LANGUAGES

☐☐ English (Fluent) | ☐☐ Spanish (Basic) | ☐☐ Swahili (Native)