TIMOTHY CHRISTIAN WANIAYE

Software Engineering | Artificial Intelligence | Data Science | User Training | Data-Driven Solutions

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PROFESSIONAL SUMMARY

Motivated Software Engineer with a strong foundation in information systems, AI, and data-driven solutions. Experienced in software development, systems architecture, CI/CD pipelines, and IT infrastructure support. Skilled at building scalable, secure, and user-friendly applications while fostering cross-team collaboration. Passionate about Industry 4.0, digital mobility platforms, and AI/ML in connected systems.

TECHNICAL SKILLS

- **Programming & Scripting**: Python, Java, JavaScript, HTML, CSS, Bash
- **Frameworks & Tools**: React.js, Express.js, Django, Laravel, Vite, Junit, Pytest, Mocha, Chai
- **Systems & Infrastructure**: Linux/Windows OS, Git, CI/CD pipelines, containerization basics (Docker)
- **Database Management**: MySQL, PostgreSQL, MongoDB
- **Cybersecurity & Networking**: Firewalls, penetration testing basics, network monitoring, data integrity practices
- **Industry 4.0 & AI**: Machine learning models, predictive analytics, IoT fundamentals, smart mobility concepts

PROFESSIONAL EXPERIENCE

IT Officer – *Pelere Group Uganda* | Aug 2024 – Aug 2025

- Oversaw IT operations, including network configuration, software deployment, and systems troubleshooting**,** improving uptime by 20%.
- Designed and implemented automated reporting workflows**,** streamlining internal communications.
- Trained staff in digital literacy and cybersecurity best practices**,** increasing compliance with IT protocols.
- Documented processes and workflows in line with ISO-aligned quality management principles**.**

Software Engineer (Intern) – *Computing Palace Technologies* | May 2022 – Sept 2022

- Contributed to UI/UX design improvements, enhancing system usability.
- Developed technical and test documentation for ongoing projects, improving collaboration across teams.
- Produced end-user guides that reduced support tickets by 15%.
- Participated in debugging and code reviews, ensuring quality assurance in deployments.

EDUCATION

Bachelor of Science in Software Engineering – Makerere University | Aug 2019 – Jan 2025

- Key Subjects: Requirements Engineering, UI/UX Design, Software Principles, Data Science, Computer Networks.
- Projects: Data science analysis with Python using Jupyter Notebooks.

Certificate in AI & Machine Learning – Refactory Uganda | Oct 2023 – Jun 2024

- Gained hands-on experience building AI models, implementing machine learning algorithms, and applying data-driven solutions to real-world problems.

Software Engineering Apprenticeship – Refactory Uganda | Mar 2025 – Present

- Full-stack software development, AI models, mobile applications, enterprise systems, and data science projects, Agile Development.