



JOANITA NAKITYO

SYSTEMS SOFTWARE ENGINEER

CONTACT

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- <https://joanita-51.github.io/>

EDUCATION

2024 - 2026
Ulsan National Institute of
Science and Technology - UNIST

- Master of Science in
Computer Science and
Engineering (CSE)

2019 - 2023
MAKERERE UNIVERSITY - MUK

- Bachelor of Science in
Software Engineering (BSSE)

TECHNICAL SKILLS

- Rust programming
- C/C++ programming
- LLVM
- Web development (MERN stack)
- Linux

PROFILE

Systems Software Engineer with graduate research experience in systems security research, Rust systems programming, and secure software development. Passionate about designing secure, high-performance software and sharing knowledge through teaching and technology communities.

WORK EXPERIENCE

Computer Systems Security Lab (CSSL), UNIST

Graduate Researcher & Teaching Assistant Sep 2024 - Aug 2026

- Conducted graduate research on improving security at the boundary between Rust applications and external native-code components.
- Designed and evaluated a systems security prototype involving compiler and runtime techniques.
- Conducted performance and memory-overhead experiments using systems benchmarks.
- Review and evaluate C/C++ programming assignments as a Teaching Assistant

Club Tangaza Limited

Dec 2023 - Jan 2024

Flexi Instructor

- Delivered training on Git, GitHub, Node.js, SQLite, REST API integration, and software development fundamentals.
- Mentored beginner developers through hands-on coding exercises.

Stanbic Bank Uganda

Sep 2023 - Dec 2023

Women in Tech Placement

- Earned the UiPath RPA Developer certification.
- Developed a bot for file transfer in UiPath Studio, increasing operational efficiency