

Ethan Lukandwa

| ethanlukandwa@gmail.com | [linkedin.com/in/ethanlukandwa](https://www.linkedin.com/in/ethanlukandwa) | github.com/3luko |

EDUCATION

University of St. Thomas

Expected: May 2026

Bachelor of Science in Computer Science & Minor in Data Science

- **Relevant Coursework:** Object Oriented Design & Programming, Data Structures-Object Design, Information Security, Database Design I, Data Mining & Machine Learning, Algorithms

TECHNICAL SKILLS

Languages: Python, TypeScript, Java, JavaScript, HTML/CSS, Powershell, MATLAB, R, C, C#

Frameworks: Flask, Tailwind CSS, Vite, Web APIs, React.js, Bootstrap

Developer Tools & Technologies: Git, Google Cloud Platform, Node.js, MongoDB, AWS, SQL, Azure, Linux

EXPERIENCE

Undergraduate Research Assistant

June 2025 – Present

University of St. Thomas

Saint Paul, MN

- Developing a web application using React.js that enables users to reflect on past financial transactions and Amazon purchases, leveraging a Chrome extension to automatically generate and import purchase data from CSV files.
- Designing a question-based journaling system with predefined prompts tailored to purchase categories, enabling structured reflections for future pattern detection and financial behavior analysis.

Software Engineer Intern

June 2025 – Aug 2025

U.S. Bank

Hopkins, MN

- Optimized **1,400+** **Power BI workspaces** by identifying **400+** **inactive environments** through engagement and content analysis, improving efficiency and reducing storage costs by an estimated **15%**.
- Developed a custom Power BI Admin API solution to extract and analyze over **800,000 audit log entries**, enabling **100%** coverage of user activity and workspace health monitoring.
- Engineered automated monitoring workflows within a CI/CD pipeline, reducing detection time from weeks to less than **24 hours** and strengthening operational excellence and observability.

Information Security Intern

Feb. 2025 – Present

University of St. Thomas

Remote

- Investigated and responded to phishing attempts, suspicious emails, and risky sign-ins by leveraging Microsoft Entra ID, Graph API, and Sumo Logic, enhancing detection and mitigation of threats.
- Developed a custom program that monitored and optimized VPN activity, successfully reducing unnecessary VPN usage across the university by approximately **15%**, improving security and network efficiency.
- Enhanced observability by building log analysis pipelines (JSON, API, PowerShell, Python), enabling proactive detection and prevention of security incidents.

IT Systems Support Engineer Intern

June 2022 – Aug 2024

Egan Company

Champlin Park, MN

- Led over **8 intern projects** during the summer, including developing a PowerShell script to automate laptop setup, which improved team efficiency by **20%**
- Demonstrated proficiency in application virtualization, efficiently managed user access with Active Directory, and conducted seamless server maintenance to uphold optimal system performance.

PROJECTS

Twegaite Guest Management System | Python, SQLite, Tkinter

Aug. 2024 – May 2025

- Developed a Python-based guest management system utilizing SQLite to track registration payments, and guest information for over **300 attendees** at a national convention.
- Integrated a user-friendly GUI with Tkinter and ttkbootstrap to streamline guest interactions, automate payment tracking, and enhance event management efficiency.

Motiv8 | Apache, MySQL, PHP, HTML, CSS, Linux Mint

July 2024 – Aug 2024

- Designed and deployed a scalable web app on Linux Mint with Apache, automating weekly motivational email delivery using event-based architecture and secure user registration.
- Configured backend infrastructure leveraging PHPMailer for Gmail-based account creation and weekly email delivery, with HTML/CSS for a responsive interface and secure database integration.

LEADERSHIP & INVOLVEMENT

Resident Advisor | University of St. Thomas

June 2025 – Present

- Supported and mentored **75+** **residents**, creating inclusive programming and fostering a collaborative living environment that increased student engagement and belonging.
- Mediated and resolved residential conflicts by applying active listening and problem-solving skills, improving community satisfaction and living conditions.

Vice President | African Nations Student Association

Sept. 2023 – May 2025

- Organized large-scale events with **200+** **attendees**, including a career expo with industry professionals, and led numerous volunteer initiatives, contributing to ANSA's recognition as the university's most active club.