Ethan Lukandwa

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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#, C++, SQL, PostgreSQL
Frameworks: Flask, Express JS, Tailwind CSS, Vite, Web APIs, React.js, Bootstrap
Developer Tools & Technologies: Git, Google Cloud Platform, Node.js, MongoDB, AWS, SQL, Azure, Linux, DynamoDB, Postgre

EXPERIENCE

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.

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.

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

The Health Project | *Node.js, Express.js, MongoDB, HTML/CSS, JavaScript* Aug. 2024 – May 2025
- Developed a full-stack fitness tracking web application using **Node.js, Express, and MongoDB**, enabling user signup/login, workout scheduling, and goal-based calorie intake calculations.
- Implemented dynamic client-side features with **JavaScript, HTML, and CSS**, including a countdown timer, workout logging system, and interactive weekly schedule with automated date generation.
- Built RESTful routes and integrated a MongoDB database for secure user data storage and retrieval, improving user experience by supporting persistent accounts and personalized fitness plans.

Matatu Card Game | *C#, .NET Framework* June 2024 – July 2024
- Designed and developed a console-based **C#** implementation of the Matatu card game, featuring custom rules, object-oriented design, and an **AI-driven** computer opponent for strategic two-player gameplay
- Enhanced gameplay with special card mechanics and intelligent decision-making algorithms, applying algorithm design, data structures, and UML-based class modeling to deliver a robust and engaging user experience.

Sustainability Trivia | *Java, JavaFX* July 2024 – Aug 2024
- Designed an intuitive user interface with interactive gameplay mechanics and multimedia elements, collaborating with a multidisciplinary team to deliver an engaging and educational experience on sustainability practices.
- Led the development of a sustainability trivia game using Java and JavaFx, **awarded one of the top sustainability projects at the University of St. Thomas.**

LEADERSHIP & INVOLVEMENT

Resident Advisor | *University of St. Thomas* June 2025 – Present
- Supported and mentored **300+ 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.