

William Osei-Hwere

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PROFESSIONAL SUMMARY

Computer Science student at Dakota State University (graduating June 2027) specializing in Software Engineering and Cyber Security, with hands-on experience in IT operations, digital forensics, full-stack web development, and automation. Demonstrated ability to support enterprise-scale environments, build Python-based automation tools, and deliver technical solutions across internship and project settings. Strong academic record with a 3.86 GPA and active campus leadership.

EDUCATION

Dakota State University (DSU)

Madison, South Dakota

Bachelor of Science in Computer Science, Software Engineering and Cyber Security. Honors

June 2027

List. GPA: 3.86/4.0.

Relevant Coursework: Advanced Data Structures, Software Security, Web Development, Networking, Discrete Math, Calculus II, Statistics, Parallel Computing, Operating Systems, Object Oriented Design

EXPERIENCE

IT Intern

May 2026 – August 2026

Theodore Roosevelt Medora Foundation

Medora, ND

- Supported IT operations across approximately 30 outlets and venues, ensuring reliable technology services throughout the organization.
- Reworked the company intranet, calendar, directory, and SharePoint environment to improve usability and navigation.
- Resolved 3-5 tickets per day across varying complexity levels, serving as a support buffer for full-time staff.
- Managed user accounts and access for 90+ full-time employees and 300 seasonal workers, covering account creation, security, Microsoft Teams, and Outlook.
- Built and improved automation workflows using Zapier to reduce manual processes and improve operational efficiency.

IT and Cyber Security Intern

May 2025 – July 2025

e-CrimeBureau

Ghana

- Supported digital forensics and incident response investigations by analyzing TCP/IP traffic and intrusion logs.
- Automated security reporting workflows in Python, reducing case documentation time by 25%.
- Redesigned and optimized the firm's Learning Management System (LMS), improving usability for 200+ course representatives and students.

Resident Assistant

July 2024 – Present

Dakota State University, Residence Life

Madison, SD

- Managed a residence hall community of 40+ students, resolving conflicts with a 90%+ success rate and organizing 5+ educational events per semester to support student retention.
- Applied conflict management, communication, and time management skills in high-pressure scenarios to strengthen community engagement.

Technology Research and Risk Intern

July 2023 – December 2023

Jobs Nation Inc.

MN

- Researched emerging technologies and developed risk assessments to inform investment strategies.
- Built Python scripts to automate market trend data collection, improving research efficiency by 30%.

PROJECTS

TRMF Scavenger Hunt

- Built a full-stack digital scavenger hunt web application for Medora using HTML, CSS, JavaScript, SQL, Node.js, and Express, supporting clues, navigation, and persistent data tracking.

Online Portfolio

- Designed and deployed a personal website at oseihwere.com showcasing interactive projects, reaching 500+ unique visitors since launch.
- Experimented with ReactJS components to enhance interactivity.

Interactive Shopping System

- Developed an interactive shopping program in C++ enabling users to browse items, select products, and apply dynamic discounts with real-time cart updates.

Assembly Language Optimization Project

- Optimized a binary search algorithm in x86 Assembly to reduce instruction cycles, achieving a 30% speedup in execution.

Advanced Data Structures Performance Analysis

- Designed and implemented a file-based key-value storage system in C++, experimenting with hashing, Trie, and Red-Black Tree structures for efficient retrieval.

ACTIVITIES & LEADERSHIP

DSU Black Students Union

Vice President

- Provided leadership through board meetings, event planning, and strategic outreach, growing membership by 70%.

Dakota State University

Teaching Assistant

- Tutored 40+ students in programming and algorithms.

Student Activities Board

Member

- Organized 10+ campus-wide events to promote student engagement, mental health, and positive social interaction.

Dakota State Campus Crusade for Christ (CRU)

Worship Leader, Cell Leader, and Bible Study Group Leader

SKILLS

Languages: Python, C, C++, C#, Java, SQL, Assembly (x86)

Web and Frameworks: HTML, CSS, JavaScript, Node.js, Express, ReactJS

Systems and Tools: Linux, Git, Docker, AWS (basic), Microsoft 365, Zapier

Networking and Security: TCP/IP, Packet Analysis, Forensics Tools, Vulnerability Assessment

Specialties: Data Structures and Algorithms, Performance Optimization, Secure Software Design, Web Development