Pauline Wakiuru Wachiuri

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EDUCATION

Northwestern University, Evanston, Illinois   Class of 2025
Bachelor of Science in Computer Science
Minor: Data Science and Engineering
GPA: 3.6 (out of 4.0)

SKILLS

Python, C, C++, HTML, CSS, Matlab, SQL, Racket, DSSL2, basic metalwork, and workshop experience

PROJECTS

Design, Thinking and Communication Course, Northwestern University   Mar – May 2022
Client: Kohl Children's Museum
- Developed an interactive exhibit for children that integrated STEM concepts and unique features in the City of Chicago that was projected to increase child engagement by 40%
- Worked in a team of 4 to brainstorm ideas for an exhibition according to our client's vision and extensive research done on child learning and engagement
- Performed user and performance testing on a sample population at our client's location to identify responses, needs, and modifications required for our 4 main ideas
- Conducted a rigorous design review on 4 key ideas intended to be presented to our client which focused on critical areas such as child safety and learning productivity using data collected from user testing

Whack-a-Mole Rewritten, Northwestern University   April 2022
C, C++
- Coordinated with a partner to write a simple version of the Whack-a-Mole which ran up to 3 times faster than the demo games found on the internet
- Implemented visual sequences in the game that tested for speed and image cognitive skills of the player

Interactive Business Database, Jomo Kenyatta University of Agriculture and Technology, Kenya   December 2019
MySQL, SQL
- Worked in a team of 5 to create a large-scale hotel management database capable of serving 150 guests at a time
- Using the entity relationship model, we formulated different ways to synchronize up to 6 hotel services to streamline guest payments cutting errors by 70%

ACTIVITIES

Member, *Society of Women Engineers*, Northwestern University   Sept 2021 – Present
- Immersed in mentorship program aimed at preparing and educating women engineers on the career opportunities the tech industry has to offer
- Collaborate with a team of fellow students to draw new members to the organization

Member, *National Society of Black Engineers*, Northwestern University   Sept 2021 – Present
- Work with 50+ black engineers to identify and prepare for career opportunities in the tech industry and increase representation in marginalized fields
- Contribute to panels which host up to 40 students at a time to discuss key issues involving black students looking to establish careers in STEM fields

Peer Mentor, *Zawadi Africa Scholars Program*, Nairobi, Kenya   Jun 2020 – Mar 2022
- Conduct thorough research on resource material given to 16 selected scholars for reference and use in their college application process
- Provided individualized essay editing and SAT tutoring sessions for a total of 80 hours over a span of 3 months
- Participated in general panels and one-to-one advising sessions for 2-6 scholars where their college application journeys were discussed at length and action plans devised with a success rate of 80%