Nissi Otoo

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Problem Solving · Adaptability · Public Speaking · Time Management

Education

Virginia Tech | Blacksburg, VA   EXPECTED GRADUATION MAY 2027
B.S. Computer Engineering | GPA: 3.1
Relevant Coursework: Physics I, Calculus II, Linear Algebra, Intro to Electrical and Computer Engineering

Experience

REACH CS Lab | Research Assistant   FEB. 2024 –PRESENT
Blacksburg, VA
- Conducted primary research centering human-computer interaction (HCI).

SMILE Engineering Education Lab | Research Assistant   SEP. 2023 –MAR. 2024
Blacksburg, VA
- Conducted data cleaning and transcript formatting for 15+ qualitative interviews.
- Authored 15+ analytical memos post-interview to summarize findings.
- Presented research poster at CoNECD Conference to 250 attendees.

Wegmans | Cashier   SEP. 2021 – JUN. 2022
Woodbridge, VA
- Participated in training for product knowledge and customer service.
- Upheld cash handling procedures, safety protocols, and privacy regulations.

Kumon | Tutor   FEB. 2020 – OCT. 2020
Woodbridge, VA
- Assisted students in grades K-12 with math and reading enrichment.
- Provided individualized instruction and assistance with daily work.

Leadership

National Society of Black Engineers
Undergraduate Council | *Virginia Tech*   SEP. 2023- PRESENT
- Led event planning and execution for social and academic events for 200+ members.
- Acted as liaison between companies and members, generating $1350 funding for events and initiatives.

President and Co-Founder | *Osbourn Park High School*   AUG. 2022 – JUN. 2023
- Led monthly meetings and organized professional field trips to Lockheed Martin and Aurora Flight Sciences.

Marching Band   JUN. 2022 – JUN. 2023
Drum Major | *Osbourn Park High School*
- Directed and mentored 60+ band members to master their respective instruments.
- Attained Superior rating at VBODA State Assessment, the highest honor.

Projects

Correlation Analysis of Phone Sightings and Car Accidents | MATLAB   OCT. 2023
- Conducted an analysis on data from The National Highway Traffic Safety Administration.
- Applied statistical modeling and visualization to identify and interpret correlation.

Hair Bias in Generation Z | Independent Research   AUG. 2022 – MAR. 2023
- Authored a 5000-word independent study investigating the influence of hair bias on black women's self-esteem and career opportunities within Generation Z.
- Leveraged mixed-method research to provide insights into trends and agreement levels.
- Presented findings to a 6-member professional board.

Skills

Languages: Python, MATLAB, LaTeX, C++, HTML, CSS, JavaScript
Tools: AD3 Oscilloscope, Arduino
Programs: Microsoft Office, Visual Studio Code, SolidWorks