

Nissi Otoo

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Education

Virginia Tech | Blacksburg, VA

EST. MAY 2027

B.S. Computer Engineering | GPA: 3.1

Relevant Coursework: Physics I, Calculus II, Linear Algebra, Intro to Electrical and Computer Engineering

Skills

Languages: Python, MATLAB, LaTeX, C++, HTML, CSS, JavaScript

Tools: AD3 Oscilloscope, Arduino

Programs: Microsoft Office, Visual Studio Code, SolidWorks

Experience

REACH CS Lab | Research Assistant

FEB. 2024 – PRESENT

Blacksburg, VA

- Led interviews, market research, and literature reviews defining project scope for 2 human-computer interaction initiatives with IRB approval.
- Leveraged Overleaf and LaTeX for streamlined organization and writing efficiency.

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 to summarize findings using thematic analysis.
- Presented research poster at CoNECD Conference to 250 attendees.

Kumon | Tutor

FEB. 2020 – OCT. 2020

Woodbridge, VA

- Assisted 20 students daily in grades K-12 with math and reading enrichment.
 - Provided individualized instruction and assistance with daily work.
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Projects

Personal Website | Full-Stack Development

APR. 2024

- Developed a website from scratch utilizing 48% HTML, 43% CSS, and 9% JavaScript.
- Implemented interactive elements including transitions, buttons, and a JavaScript image slider.
- Ensured cross-device compatibility with a responsive interface for user-friendly UI/UX.

Distracted Driving Correlation Analysis | Data Analysis Program

OCT. 2023

- Conducted an analysis on data from The National Highway Traffic Safety Administration.
- Applied statistical modeling and visualization on MATLAB to identify and interpret correlation.

Hair Bias in Generation Z | Self-Identity 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 quantitative and qualitative methods to survey 100+ students, uncovering trends and agreement levels.
 - Presented findings to a 6-member professional board.
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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 state assessment, the highest honor.