Oluwaseun Noah Adeyeye

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EDUCATION

Howard University, Washington, DC **May 2026**

Bachelor of Science in Electrical Engineering with Minor in Computer Science and Mathematics

Major Coursework: Electromagnetics, Fund. Energy Systems, Fund. Signals and Systems, Fund. SS Devices, Circuit Theory, Digital Systems, Calculus I-III, Physics I-II
Minor Coursework: Differential Eq., Computer Science I-II, Applied Data Structures, Large Scale Programming

SKILLS

Coding Languages: Python, C++, Julia, Swift, Kotlin, React Native
Developer Tools: VS Code, Xcode, Android Studio, GitHub, Autodesk, Microsoft suite, Paraview, AWS

RESEARCH AND STEM EXPERIENCE

Caltech Southern California Edison WAVE Fellow **Summer 2025**

Summer Researcher, Nonlinear Photonics Laboratory *Pasadena, California*

- Built an optoelectronic mode-locked laser system on thin-film lithium niobate (TFLN).
- Purchased components, assembled setups, and characterized devices using power, beat-note, and pulse measurements.
- Designed schematics and layouts integrating theory, fabrication, and nonlinear photonics practice.

Howard University Researcher **Fall 2024 – Present**

Student Researcher, Laser Spectroscopy Laboratory *Washington, D.C.*

- Performed Raman spectroscopy of lunar analog minerals and applied ML models for composition prediction.
- Developed software pipelines to analyze spectral datasets and generate mineral identification simulations.

Stanford Undergraduate Research Fellowship (SURF) **Summer 2024**

Summer Researcher, Congreve Lab *Palo Alto, California*

- Enhanced the efficiency of triplet-triplet annihilation upconversion by increasing its effective quantum efficiency by 4x.
- Conducted spin coating, evaporation, and photoluminescence testing in wet/photonics lab.
- Designed experiments to minimize the loss of effective quantum efficiency caused by oxygen exposure in samples.

PROJECTS

Rooted: University Hub | tree-technologies.com **January 2023 - Present**

- Co-founded Tree Technologies, a company focused on developing innovative digital applications for universities.
- Created a platform that enables students to seamlessly connect with Howard University's technology infrastructure.
- Built using React Native and AWS, encompassing both the frontend and backend of the application.

LEADERSHIP / EXTRACURRICULAR

Bethel Campus Fellowship **Jan 2024 – Present**

Men's Fellowship Coordinator *Howard University*

- Lead fellowship activities by organizing Men's Fellowship, Bible studies, and community events.
- Coordinated travel logistics for 60+ students attending our national conference in North Carolina.
- Organized outreach initiatives, engaging with students in conversations about faith.

Howard University Student Association **Spring 2023 - Fall 2024**

Senator *Howard University*

- Elected to represent the School of Engineering and Architecture in Howard's Senate. Notable achievements include passing legislation such as the "Project Gift-back" and "Flowers Project" Acts, which focused on giving back to Howard University workers and administration.

HONORS AND AWARDS

Karsh STEM Scholar, Selected as a member of the 6th cohort of Howard University's Karsh STEM Scholars Program.
HU Empower 1st Place Winner, Won $20,000 for Tree Technologies by securing first place in HU Empower's 5th annual pitch competition.
AWS Certified Cloud Practitioner, Understanding of IT services and their uses in the AWS Cloud
PLTW Certificate, Awarded for completing the Project Lead the Way Engineering Academy.
James E. Blackwell Scholarship, Recognized for dedication to solving practical problems and striving to improve the world.