# 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:** Fundamentals of Digital Systems, Engineering Programming, Calculus I-III, Physics I-II, Differential Equations
**Minor Coursework:** Computer Science I, Computer Science II, Applied Data Structures

## SKILLS

**Coding Languages**: Python (5yrs), C++ (3yrs), Julia (2yrs), Swift, Kotlin, React Native
**Developer Tools**: VS Code, Xcode, Android Studio, GitHub, Autodesk, Microsoft suite, Paraview, AWS

## RESEARCH AND STEM EXPERIENCE

**Stanford Undergraduate Research Fellowship (SURF)** — **Summer 2024**
*Summer Researcher* — *Palo Alto, California*
- Enhanced the efficiency of triplet-triplet annihilation upconversion by increasing its effective quantum efficiency by 4x.
- Conducted wet lab research, performing experiments using techniques such as spin coating, evaporation, and optical spectroscopy.
- Designed experiments to minimize the loss of effective quantum efficiency caused by oxygen exposure in samples.

**NASA Jet Propulsion Laboratory (JPL)** — **Summer 2023 - Present**
*Summer Intern* — *Pasadena, California*
- Developed an open-source simulation tool for exoplanet imaging using the Julia programming language.
- Coded optimal pupil-apodization basis sets to illustrate eigenvalues that minimize solar interference.
- Programmed in C++ and Julia, expanding my toolkit to effectively address scientific challenges.

**Howard University Researcher** — **Summer 2023 - Present**
*Co-Founder* — *Washington, D.C.*
- Continued research with NASA JPL, optimizing the open-source simulation tool and collaborating with other students to improve research outcomes.
- Effectively taught students the Julia programming language and guided them in using GitHub to organize their code.

## PROJECTS

**Rooted: University Hub | 🌐 Website  iOS App** — **January 2023 - Present**
- Co-founded Tree Technologies, a company focused on developing innovative digital applications for universities.
- Created a centralized 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

**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.

**Bethel Campus Fellowship** — **January 2024 - Present**
*Men's Fellowship Coordinator* — *Howard University*
- Serve as a CoLabourer in my school's ministry, organizing events such as Men's Fellowship, Bible study, and more.

## 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.
**Dean's List,** Recipient of the Howard University College of Engineering and Architecture Dean's List, 2022 - 2024.
**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.