

Siji (SJ) Ajisegiri

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EDUCATION

University of Oklahoma

PhD in Computer Science.

Norman, OK

Anticipated: Fall 2026

University of Oklahoma

MSc. in Computer Science.

Norman, OK

May 2025

Howard University

BSc. in Computer Science.

Washington, DC

May 2019

LEADERSHIP & PROFESSIONAL DEVELOPMENT

Research Intern

Esri Inc.

June 2022 – August 2022

Redlands, CA

- Created a comparison technology and methodology for processing movement data and applying it to a street network.
- Devised a post-comparison approach for enhancing *OpenStreetMap*(OSM) and *StreetMap Premium*(SMP) using the Inrix dataset.
- Conducted data cleaning and visualization of the Inrix movement dataset, utilizing tools such as pandas, arcpy, and ArcGIS features for GeoAccessor and GeoSeriesAccessor.

Information Technology Support Specialist

Howard University

Oct. 2017 – May 2019

Washington, DC

- Monitor Howard University's computer networks for potential security attacks and ensure 100% of computers within the Howard University Domain (including Howard University Hospital) are protected from malware invasion daily, using Netwrix, SIEM
- Managed 5+ cyber security attempted incident attacks on the University's and Hospital's systems & platform
- Documented & closed 100+ security breach tickets, assessed the causative damage, and implemented control factors
- Remediated 100% of virus-infected computers by using McAfee security applications to diagnose compromised computers
- Collaborate with security team to perform tests, uncover network vulnerabilities, and isolate infected systems & platforms
- Recommend improved cyber security enhancements to senior management based on research, IT security trends, and news

Google Tech Exchange

Google Inc.

May 2017 – Aug. 2017

Mountain View, CA

- Selected to participate in the inaugural class of the Google-Howard West: 12-week immersion program at the Google campus
- Engaged in rigorous coursework taught by Google engineers and Howard professors, earning 12 credits [e.g., Machine Learning]
- Created a search engine using Stanford's database but simulating the Google Search Engine functionalities, to decompose and optimize starter codes, and develop synergies between the codes' backend & frontend languages
- Built a working android mobile app called "Finesse University" targeted to enhance open file sourcing & sharing among college students
 - * Finesse University app optimized Google Drive's functionalities by ensuring identified student accounts can access unlimited course files, donated by course-mates throughout the lifetime of the courses.
 - * Used Google firebase as the storage and authentication system to create an extra layer of protection.
 - * Specified user login using Facebook and/or Gmail accounts in order to protect the integrity & longevity of the data shared
 - * Participated in weekly mock interviews to assimilate the technical requirements of a Google level software engineer

Resident Assistant

Howard University

Aug. 2016 – May 2018

Washington, DC

- Create floor programs that expose students to new ideas, promote social interaction, and offer opportunities for growth
- Demonstrate effective communication, productive teamwork with other resident assistants, & positive conflict resolution skills
- Develop interpersonal relationships with students while performing administrative duties and enforcing residence life policies

TEACHING & RESEARCH EXPERIENCE

University of Oklahoma

August 2020 - Present

Teaching Assistant, Software Engineering Processes

Jan 2025 - Present.

- Supports in facilitation and execution of course activities, grades, and lectures
- Oversee grading and daily communication for 40+ graduate-level students
- Conducts weekly online office hours to support students & promote open dialogue

Teaching Assistant, Software Engineering & Capstone

Aug. 2022 - Dec. 2024

- Supported in facilitation and execution of course activities, grades, and lectures
- Oversaw grading and daily communication for 100+ undergraduate-level students
- Conducted weekly online office hours to support students
- Create and supervise practical tests and quizzes, and maintain regular ~20 hours of office hours/month & open dialogue with students

Teaching Assistant, Distributed Operating Systems

Aug. 2023 - Dec. 2023

- Supported in facilitation and execution of course activities, grades, and lectures
- Oversaw grading and daily communication for 30 graduate-level students
- Conducted weekly online office hours to support students & open dialogue with students.

Co-Teaching Assistant, Data Structures

Jan 2022 - May 2022

- Supported in facilitation and execution of course activities and grades.
- Oversee grading, code reviews, and daily communication for 90+ undergraduate-level students
- Conducted weekly online office hours to support students & open dialogue with students.
- Create and supervise practical tests and quizzes, and maintain regular ~20 hours of office hours/month & open dialogue with students.

Teaching Assistant, Text Analytics

Jan 2021 - May 2021

- Supported in facilitation and execution of course activities and grades.
- Oversee grading, code reviews, and daily communication for 60+ graduate-level students
- Conducted weekly online office hours to support students & open dialogue with students.
- Create and supervise practical tests and quizzes, and maintain regular ~20 hours of office hours/month & open dialogue with students.

Graduate Research Assistant

Aug. 2020 - Present

- Conduct and assist with OU Data Lab research by using historical data to analyze the benefits of building smart cities
 - * Evaluate the effect of smart cities on gentrification rate, income levels, education & race deviations; Case study: St. Louis, MO
- Conduct research with OU Secret Lab by using gathered email data to learn, analyze, and evaluate privacy implications of email marketing.
- Current research work includes using retrieval augmented generation and methods to analyze and improve datasets of low-resourced languages.
 - * Case study: Swahili, Zulu, Yoruba

SCHOLARSHIP & AWARDS

- **NSF Travel Grant Award** (2025) - 15th ACM Conference on Data and Application Security and Privacy.
- **Milton J. Gordon Memorial Scholarship** (2023 - 2024) – Awarded \$1,000 for academic excellence.
- **CS Alumni Graduate Fellowship** (2023 - 2024) – Received a \$1,000 fellowship for outstanding performance in Computer Science.
- **Richard L. OShields Endowment** (2022 - 2023) – Selected for a merit-based scholarship of \$1,000.
- **CS Alumni Graduate Fellowship** (2021 - 2022) – Received a \$1,000 fellowship for outstanding performance in Computer Science.
- **David R. Bobo Memorial Scholarship** (2021 - 2022) – Recognized with a \$1,000 scholarship for academic achievements.
- **Computer Science Scholarship** (2020 - 2021) – Recognized with a \$2,500 merit-based scholarship.

TECHNICAL SKILLS

Languages: Python, C++, Java, SQL, HTML/CSS, R

Developer Tools: Git, Docker, Google Cloud Platform, VS Code, Visual Studio

Framework: Langchain

Libraries: pandas, NumPy, Matplotlib

CONFERENCES & PRESENTATIONS

- Seidenberger, S., **Ajisehiri, O.**, Pursell, N., Raja, F., & Maiti, A. (2025). *Why You've Got Mail: Evaluating Inbox Privacy Implications of Email Marketing Practices in Online Apps and Services*. Oral Presentation at the 15th ACM Conference on Data and Application Security and Privacy, Pittsburgh, PA, 4-6 June 2025.

PUBLICATIONS

- J. DeHart, **O. Ajisehiri**, C. Baker, G. Erhardt, J. Cleveland, C. Grant. *Becoming a smart city: A textual analysis of the US smart city finalists*. Accepted to the International Journal On Advances in Intelligent Systems (IARIA), v14 n 1&2. 2021
- Seidenberger, S., **Ajisehiri, O.**, Pursell, N., Raja, F., & Maiti, A. (2025). *Why You've Got Mail: Evaluating Inbox Privacy Implications of Email Marketing Practices in Online Apps and Services*. Accepted at ACM Conference on Data and Application Security and Privacy(CODASPY), 2025.

EXTRACURRICULAR ACTIVITIES

- **Other Affiliations:** Tau Beta Pi, Association of Computing Machinery, National Society of Collegiate Scholars, National Society of Black Engineers