



# Kenneth Lance Howard

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## Education

### North Carolina Agricultural & Technical State University

Bachelor of Science in Computer Science

GPA: 3.72/4.0

Greensboro, NC

Expected May 2025

### Fayetteville Technical Community College

Associate of Science

Fayetteville, NC

May 2021

## Technical Skills & Software Proficiencies

**Proficient:** C++, Java, Python, HTML, CSS, JavaScript, React, VS Code, NetBeans, Eclipse, SQL, Swift, Node.js, Jenkins, Linux, LLMs, RAG, various APIs/microservices, PyCharm

**Skills & Interests:** Machine Learning, Frontend, Data Structures, Algorithms, OS, Services, Flutter, Networking, Git, Digital Media, SQL, Backend, AI, Data Science, Scripting, Kubernetes, R, Linux

## Work Experience

### Sandia National Laboratories

#### Computer Science R&D

Albuquerque, NM | May 2024 – Present

- Conducting R&D initiatives to enhance national security, focusing on advanced algorithms for data analysis and system resilience.
- Integrating **LLMs**, **RAG** (Retrieval-Augmented Generation) models, and **full-stack development** to innovate secure **AI**-driven software systems.
- Collaborating with cross-functional teams to design, develop, and deploy efficient software solutions tailored to operational needs.

#### 3rd Place and Trident

#### Cofounder & Software Developer

August 2024 – Present

- Spearheaded mobile and web app development using **Angular**, **React Native**, and modern frameworks.
- Led systems design and utilized **Figma** for **UI/UX**, ensuring a seamless user experience.
- Drove strategic product innovation and technical execution.

## Projects

#### • Full Stack Application Development:

Completed large-scale Java projects with front-end/back-end design using **Eclipse**, **OOP**, and **Jenkins** for database management, React, **React Native**, and **Python** applications with API integrations, **scripts**, and **Web scraping**.

- Designed architecture, implemented features, integrated RESTful APIs, and ensured real-time data sync.

#### • Capital One Custom AI Assistance Hackathon:

Developed an AI assistant that secured 1st place. Leveraged **LLMs**, frameworks, and software engineering principles. Implemented contextual responses, data retention, and structured insights with **Streamlit** and **Docker**.

- Managed AI model development, testing, and deployment with **Docker**, refining the contextual response system.

#### • Deutsche Bank Hackathon – Sentiment Analysis with AI:

Built a real-time sentiment analysis pipeline to classify financial news and social media data.

- Trained advanced **NLP models** for high-accuracy sentiment detection; integrated results into a live dashboard for immediate insights.

#### • Sound Application for Hearing Loss (Flutter, Spotify AI):

Created a cross-platform mobile app that evaluates hearing capability and suggests curated music playlists using Spotify's API.

- Built the front-end in **Flutter** for a user-friendly interface; integrated Spotify **AI** APIs for personalized recommendations.

#### • Undergrad Research in AI/ML (Docker, LLMs, RAG, LangChain):

Created a multi-system design with **AI/ML** endpoints, producing apps (flashcards, student notes, lesson plans).

- Deployed microservices via **Docker**; employed **LLMs & RAG** for dynamic content; used **LangChain** to integrate multiple **AI** tasks.

## Extracurriculars & Awards

- Member, (Association of Computing Machinery) ACM, NSBE & SHPE at NC A&T

Fall 2023–2025

- **Gen AI Certified with Dell**; Placed in Deutsche Bank Hackathon

- Dean's List Computer Science Honors Award NC A&T

Spring 2024

- Member, NCSU AI Club

Fall 2021–2022

- **NC A&T Hackathon: Multiple 1st Places with Chevron, Capital One and more**

(Fall 2023, Spring 2023, Fall 2024)

- Computer Science Course TA, NC A&T

Spring 2024