



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

Fayetteville Technical Community College

Associate of Science

Greensboro, NC

Expected May 2025

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