



## Kenneth Lance Howard

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### EDUCATION

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**North Carolina Agricultural & Technical State University**  
Bachelor of Science in Computer Science; **3.74 / 4.0 GPA**

Greensboro, NC  
Expected May 2025

**Fayetteville Technical Community College**  
Associates of Science

Fayetteville, NC  
May 2021

### TECHNICAL SKILLS AND SOFTWARE PROFICIENCIES

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**Proficient:** C++, Java, Python, HTML, CSS, JavaScript, React, VS Code, NetBeans, Eclipse, SQL, Swift, Node.js, Jenkins, Linux, LLMs, RAG, a diverse array of API's and microservices,

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

### WORK EXPERIENCE

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**Sandia National Laboratories**  
Computer Science R&D

Albuquerque, NM  
May 2024 - Present

- Conducting research and development initiatives to enhance national security, focusing on the creation and implementation of advanced algorithms for data analysis and system resilience
- Furthered the integration of **Large Language Models (LLMs)**, **Retrieval-Augmented Generation (RAG) models**, and **full-stack development** to innovate secure AI-driven software systems
- **Fostered collaboration with cross-functional teams to design, develop, and deploy clean and efficient software solutions** tailored to operational needs

### PROJECTS

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#### Full Stack Application Development

• **Completed large Java projects with front and back-end design** using **Eclipse**, **OOP**, **test cases**, and **Jenkins** to manage databases. Built **React**, **React Native**, and **Python applications with APIs and scripting** for efficient, modern services. Ensured real-time updates and a seamless user experience through team collaboration, or self-interest.

#### Vector Database Model Using LLMs for AI Queries

• **With Sandia Developed a vector database model using a Large Language Model (LLM) to enhance AI-driven queries and data retrieval.** Integrated the model with Genesys and various microservices and APIs, optimizing the system for scalability and performance while collaborating with cross-functional teams to refine the architecture.

#### Chevron Integrated Student-Staff Engagement Platform

• **Created a prototype using Figma, securing 1st place in a hackathon sponsored by Chevron** incorporating a design for an application with a student and staff mobile and web application. Students can rate and see company information about hiring events and prizes. In contrast, the company takes in the feedback data and uses the platform to plan and communicate more efficient company solutions. This would be implemented using **React**, **Mongo**, and **Node.js**.

### EXTRACURRICULARS & AWARDS

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- **Member of the Association of Computing Machinery (ACM) at NC A&T Fall 2023-2024**
- **Chancellor's list NC A&T Fall 2023**
- **Dean's List NC A&T Spring 2024**
- **Member of the NCSU AI Club Fall 2021-2022**
- **North Carolina A&T Hackathon**
  - *1st Place Fall 2023 & 1st Place Spring 2023*
- **Computer Science Honors Award NC A&T 2024**
- **Computer Science course TA NC A&T Spring 2024**
- **Member of National Society of Black Engineers (NSBE) Fall 2024**