

Nolan Coffey

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EDUCATION

The University of Tennessee, Knoxville Tickle College of Engineering Knoxville, TN
Master of Science in Computer Science May 2026
Bachelor of Science in Computer Science | Summa Cum Laude May 2025
Major: *Honors Computer Science* | Minor: *Business Administration*

- Relevant Courses: Deep Learning, Advanced Software Engineering, Machine Learning, Natural Language Processing, Bio-Inspired Computing, Human Factors in Cybersecurity, Technical and Professional Writing

PROFESSIONAL EXPERIENCE

UTK Knoxville, TN
Undergraduate Research Assistant - Dr. Doowon Kim January - June 2025

- Researched LLM fingerprinting for phishing detection using word embeddings and supervised classifiers, interpreting feature importance with SHapley Additive exPlanations (SHAP).
- Built datasets with LLM APIs to detect model-specific stylistic patterns.

Capgemini Grand Rapids, MI
Technology Consulting Intern June – August 2024

- Utilized Python libraries such as Pandas and Seaborn for data analysis and visualization.
- 1st Place**, 2024 Launch Internship Case Study: Led a cross-functional team to design and present an AI solution using an LLM with RAG, including a high-level technical architecture for a non-technical audience.
- Developed a SharePoint site and produced stakeholder interview content, coordinating directly with members of the leadership team.

SKILLS

Programming Languages: Python, C++, C, Javascript, Java
Experience with: PyTorch, NumPy, Seaborn, Docker, Azure, SQL, Playwright, Pandas, Git, GNU/Linux, networking, LLM APIs, local LLM inference

PROJECTS

Thinking Out Loud – LLM Deception Monitoring Research June 2026
2026, arXiv preprint: <https://arxiv.org/abs/2606.30649>

- Designed and executed controlled multi-agent evaluations studying deception under asymmetric information and real-time monitoring.
- Built a Python evaluation framework supporting local LLM inference and API-based model routing.

FragFinder.cc, Fragrance product aggregator January 2026

- Developed a full-stack application using React, Node.js, and MySQL, deployed as a multi-container architecture with Docker.
- Handled webscraping and data engineering of complex, messy data.

Homelab October 2025–January 2026

- Deployed and maintained Headscale, a self-hosted mesh VPN providing secure remote access to locally hosted LLMs, Immich, and Nextcloud.

Oracle Arena, Senior Design Project November 2024–May 2025
<https://github.com/TritonEden/Oracle-Arena>

- Managed development infrastructure using Docker and an Azure-hosted PostgreSQL database and virtual machine, simplifying team setup and cloud deployment.

LEADERSHIP AND INVOLVEMENT

- HackUTK Vice President Fall 2024 - Spring 2025
- Chancellor's Honors Program | Tau Beta Pi Honor Society | Eagle Scout