

BRIDA ESAMBU

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EDUCATION

M.S. Computer Science , <i>The University of Oklahoma</i>	Aug 2024 – May 2027
B.S. Computer Science , <i>The University of Oklahoma</i>	Aug 2022 – May 2026
B.A. Mathematics , <i>The University of Oklahoma</i>	Jan 2024 – May 2026
<ul style="list-style-type: none">Data Science and Analytics Undergraduate Certificate, <i>GPA: 3.59</i><i>Coursework:</i> Software Engineering, Data Structures, Intro to Operating Systems, ML for Data Science, Cyber Attacks and Defenses	

CERTIFICATIONS

CompTIA Security+	Aug 2024
Google Cybersecurity	Jul 2024
IBM Full Stack Software Developer	Jul 2024

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL (MySQL), JavaScript, HTML/CSS, R, Bash, Dart, PowerShell
Tools & Platforms: React, Node.js, Flask, Django, Flutter, Docker, Kubernetes, Jira, Code Reviews, Agile Methodologies, CI/CD, AWS, Google Cloud Platform (GCP), Firebase, Git, GitHub, Cloud Computing, PyCharm, VS Code, Google Colab, Jupyter, TensorFlow
DevOps & Security: Metasploit, Nmap SIEM Tools, Network Scanning, Threat Modeling, Incident Response, Risk & Vulnerability

WORK EXPERIENCE

Software Development Intern <i>Ronnie K. Irani Center for the Creation of Economic Wealth</i>	Norman, OK Jan 2025 – May 2025
<ul style="list-style-type: none">Created a cross-platform Flutter for an emergency response startup in collaboration with 3 software and 4 business interns.Implemented secure authentication using email, Google OAuth, and biometric sign-in via Firebase and native device APIs, enhancing both security and user experience.Designed scalable architecture and used AI debugging to accelerate prototyping and reduce bugs.	

Research Assistant – Data Analyst <i>OU Gallogly College of Engineering – Engineering Dean</i>	Norman, OK Jan 2025 – Present
<ul style="list-style-type: none">Automated statistical analysis workflows, reducing manual processing time by 50%+ for large research datasets.Integrated AI-based tools to optimize data parsing and debugging processes, enhancing research efficiency across large datasets.	

IT Support Technician <i>OU Information Technology Learning Spaces</i>	Norman, OK Aug 2023 – Jan 2025
<ul style="list-style-type: none">Managed technical support for over 150 classrooms and 20 labs, driving a 20% increase in network uptime through proactive maintenance.Reduced average ticket resolution time by 41% by implementing systematic troubleshooting and fostering effective team collaboration.	

RESEARCH EXPERIENCE

Undergraduate Math Researcher <i>The University of Oklahoma</i>	Norman, OK Jan 2025 – Present
<ul style="list-style-type: none">Assessing the impact of student math identity on academic performance while using AI NLP models to classify interview responses.Developed methodologies to assess how inclusive teaching practices reshape student self-efficacy and drive improved outcomes in mathematics and related academic subjects.	

Security Undergraduate Research <i>The University of Oklahoma</i>	Norman, OK Jan 2025 – Present
<ul style="list-style-type: none">Conducting multimodal AI research to classify phishing emails, using vision-language models to detect image-embedded threats.Automated email rendering and metadata extraction to analyze leak vectors and develop robust threat mitigation strategies.	

PROJECTS

PhishShield-AI , <i>Personal</i> Python, Flask, Hugging Face, Threat Intelligence APIs	March 2025 – Present
<ul style="list-style-type: none">Developed an AI-powered Chrome extension that utilizes advanced threat intelligence and a fine-tuned Random Forest classifier to detect email phishing with an 85% accuracy improvement.Integrated real-time security feeds from VirusTotal and URLHaus, enabling proactive mitigation of emerging phishing threats.	

Personal Voice Assistant , <i>Personal</i> Python, Google Gemini API	May 2024 – Jul 2024
<ul style="list-style-type: none">Built a hands-free voice assistant for Spotify using Google Gemini API and STT with advanced intent recognition.Applied advanced NLP intent recognition to improve voice command accuracy and execution reliability.	

Headington Portal , <i>Personal</i> MongoDB, Express, React, Node.js	Oct 2023 – Jul 2024
<ul style="list-style-type: none">Designed and implemented a secure check-in/out system featuring JWT authentication, resulting in a 50% reduction in checkout time.Enhanced system responsiveness through automated notifications and real-time occupancy updates, supporting overall management.	

Chatbot for Degree Requirements , <i>HackTexas Austin</i>	20 – 21 Oct 2023
<ul style="list-style-type: none">Collaborated with a cross-functional team to develop a GPT-3.5 Turbo-powered chatbot that guides CS students through degree requirements and course planning, leveraging LlamaIndex for personalized, real-time recommendations.Designed a dynamic, context-driven interface with Streamlit to enhance user engagement during peak enrollment periods.	

EXTRACURRICULAR, HONORS AND AWARDS

- Google Developer Club** – Vice President – Leading initiatives to foster technical skills and community engagement.
- Microsoft TEALS Volunteer** – Guided teachers in effectively delivering impactful computer science lessons.