

ADEN TESSMAN

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Post-Secondary and Career Goals

My primary career goal is to pursue a position as a Cybersecurity Architect or Artificial Intelligence Engineer. I plan to deepen my knowledge in both fields through targeted coursework and hands-on projects, focusing on network security, threat analysis, and machine learning. By gaining practical experience through internships, I aim to develop innovative solutions that protect sensitive data while ensuring compliance with industry standards. I envision integrating AI with cybersecurity to enhance system resilience against evolving threats. Ultimately, I aspire to lead advancements that contribute to a safer digital landscape.

Education

Tarleton State University

2022 – 2026

Pursuing Bachelor of Science, Computer Science (Software Engineering)

Tarleton State University

2022 – 2026

Pursuing Bachelor of Science, Cybersecurity

Achievements

- President's List (2022-present)
- Valedictorian, Class of 2022 (High School)
- Buddy Bostick Foundation Scholarship Recipient
- Marti Foundation Scholarship Recipient

Projects

Analysis of BERT Models for Phishing Detection

Summer 2024 – Present

Tarleton State University

Supervisor: Dr. Thejas Gubbi Sadashiva, Dept. CSEE

- Project Title: Performance Analysis of BERT Models for Phishing Detection Using Advanced Sampling Techniques
- Role: Head Researcher/ Team Lead
- Conducted a comprehensive evaluation of various BERT models to assess their effectiveness in detecting phishing attempts.
- Implementing and comparing multiple sampling methods, including oversampling, undersampling, SMOTE, and K-SMOTE, to optimize model performance and mitigate class imbalance.

Machine Intelligence and Security Research Lab

2023 – Present

Tarleton State University

Supervisor: Dr. Thejas Gubbi Sadashiva, Dept. CSEE

- Gained hands-on experience in experimental design and data analysis
- Utilized advanced techniques such as statistical modeling and software like Python
- Collaborated with peers to develop comprehensive documentation of methodologies and findings, enhancing knowledge sharing and reproducibility of results.

Previous Work Experience

Therapy Tech

2022– Present

201 N Ridgeway Dr, Cleburne, TX 76033

(817) 641-9700

- Developed strong time management skills by effectively prioritizing and engaging with multiple patients simultaneously
- Fostered a positive and collaborative atmosphere that enhancing the recovery process
- Demonstrated flexibility in responding to client needs, reflecting an ability to quickly learn new technologies and adjust to changing treatment requirements.

Languages and OS

- Operating Systems: Windows 10, Windows 11, Ubuntu, CentOS
- Languages: C, C++, Java, Python, SQL, JavaScript