Ethan Conner

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Experience

Undergraduate Research Assistant August 2024 – May 2025
Tarleton State University *Stephenville, TX*

- Contributed to the development of a model written in C and CUDA to visualize data.
- Presented research findings at academic conferences and seminars.

Bioinformaticist May 2024 – February 2025
Texas A&M Agrilife *Stephenville, TX*

- Implemented Bash scripts to automatize analyzing DNA sequence reads using terminal-based bioinformatics tools.
- Built and managed multiple lab computers and ensured accuracy and integrity of sequencing for publication results.

Patient Access Specialist February 2023 – Present
Surepoint - Emergency Center *Stephenville, TX*

- Primary contact for patients entering the ER. This included using a customer relationship management system.
- Processed and organized patient records using electronic health record systems, and managed financial transactions.

Acting Center Management October 2021 – January 2023
Mathnasium *Hurst, TX*

- Management experience at tutoring facility K-12.

Cybersecurity Intern April 2025 – Present
RedKnight *Mineral Wells, TX*

- Created documentation to guide interns in effectively using common security tools and software.
- Deployed virtual machines on the network to simulate traffic for the in-house intrusion detection system (IDS).

Projects

N-Body Simulations of Microplastic Removal Using Polymers | *C, CUDA* August 2024 – May 2025

- Co-developed and optimized a CUDA-based N-body simulation of microplastic-polymer interactions with real-time 3D visualization using OpenGL, boosting performance and user engagement.
- Helped design an interface and collaborated with a team to align the tool with project goals and user needs.

Capstone - Botnet Traffic Detection Analysis Program | *Python* January 2025 – May 2025

- Co-developed a PyQt6-based GUI application for botnet detection using machine learning and neural networks on the CTU-13 dataset.
- Improved usability and accessibility by integrating a PyQt6 GUI for dataset upload, algorithm selection, training, and real-time analysis.

Technical Skills

Languages: Python, C, Bash
Developer Tools: Git, Visual Studio, Linux, VS Code
Libraries: Cryptography, Sklearn, Matplotlib, NumPy, Pandas, PyQt6, CUDA
Personal: Communication, IT foundation, documentation, willingness to learn

Certifications

Basic Life Support(BLS) Expires: February 2027

Education

Tarrant County Community College - GPA: 4.0 Hurst, TX

August 2021 – December 2022

- 36 credit hours completed
- Phi Theta Kappa (honor society)
- Vice president of award winning Chemistry Club and treasurer of the Infinity Math Club

Tarleton State University - GPA: 3.84 Stephenville, TX

Janurary 2023 – May 2025

- B.S. in Cybersecurity, minor in mathematics
- Vice President of Tarleton Mathematics Club and Vice President of Tarleton Computer Society
- Notable Achievements: President's List 3 times; Tarleton RIED Symposium 1st Place 2025, Capstone 3rd Place