Barry Gorman

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Education

BS COMPUTER SCIENCE | *EXPECTED MAY 2025* **|** *TEXAS TECH UNIVERSITY*

- Major: Computer Science
- Minor: Mathematics
- GPA: 3.96
- Already completed Cyber-Aerial Computing, SWE, DSA and Concepts of Programming Languages
- Enrolled in Networking, Operating Systems and Databases

Work Experience

UNDERGRADUATE TEACHING ASSISTANT AUGUST 2024 – PRESENT

- Support students in understanding Programming Principles II using C, enhancing their problem-solving skills.
- Evaluate and grade all lab assignments and exams, providing constructive feedback.
- Collaborate with graduate TA to deliver effective instruction for the lab portion of the course

Projects

SECOND RODEO | *PYTHON, REACT* JUNE 2024 – SEPTMEBER 2024

- Developed a comprehensive website and stand-alone application for managing stock and contestant entries.
- **Website:** Built with the MERN stack (MongoDB, Express.js, React, Node.js) and a RESTful API, allowing users (contractors, secretaries, and contestants) to view, edit, and add stock and run details.
- **Stand-Alone Application:** Created in Python with a GUI, designed to log all run and stock entries to MongoDB, ensuring accurate and efficient data management.

STUDY BUDDY | *PYTHON, REACT* APRIL 2024 – JULY 2024

- Developed a website and stand-alone application aimed at improving study habits and increasing focus by approximately 5%.
- **Website:** Built with the MERN stack (MongoDB, Express.js, React, Node.js) and integrated face-api.js for habit recognition, with a RESTful API for logging study session data.
- **Stand-Alone Application:** Created in Python with a GUI and utilized OpenCV for detecting and analyzing study habits.

SPYWARE | *PYTHON* OCTOBER 2023 – PRESENT

- Engineered a spyware application for Windows with keylogger and screen recording functionalities and implemented data transmission to Google Cloud.
- Currently extending the application's capabilities to Linux and Mac platforms and integrating network traffic logging features.

DRONE FLIGHT PATH SIMULATOR | *MATLAB* MARCH 2024 – APRIL 2024

- Created a simulator in MATLAB to generate optimal flight paths for drones, avoiding restricted areas and automatically redirecting around them.
- Applied graph theory algorithms to design and optimize the drone's path while circumventing obstacles.

Technical Skills

- Languages: C, C++, CSS, HTML, Java, JavaScript, MATLAB, Python, React, TypeScript,
- Tools and Technologies: Git, Linux, MongoDB, React, SQL, Windows, Google Cloud Platform