

ASHTON SMITH

Texas A&M Student & Test Systems Engineer

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EMPLOYMENT

Test Systems Engineer

Aug 2025 - Current

Texas A&M University, Bush Combat Development Complex

- Designing, developing, and programming various sized applications for clients from all different industries as they conduct R&D at the Innovation Proving Ground.

Student Software Engineer

Jan 2025 - Aug 2025

Texas A&M University, Bush Combat Development Complex

- Conducted experiential learning involving the development of various software applications that were pivotal to Innovation Proving Ground clients. Emphasis on data collection, aggregation, and visualization in order to facilitate successful research in multiple fields.
- **Skills:** Python | C++ | SQL | JavaScript | Linux | Docker | Git | ROS | HTML/CSS | API

Internship

Jul 2025

U.S. Army Cyber Command, Cyber Protection Brigade

- Shadowed various cyber mission teams, as well as developer task forces at the **TS/SCI** level.
- Contributed by developing a locally hosted LLM chat service which could intake contextual information from pre-made apps and offer solutions to the cyber application operator.
- **Skills:** Python | Docker | Ollama | LLMs | Networking | API | Gitlab CI/CD

Internship

Jul 2024 - Aug 2024

Air Force Institute of Technology

- Various graduate level short courses taught by faculty at the Institution ranging from offensive cyber TTPs to system administration for various operating systems. Ended with a hackathon.
- **Skills:** Coding | Sys Administration | Cryptography | Pen Testing | Forensics | Theory

PROFESSIONAL PROJECTS

“Autonomous Drone Telemetry Processing and Visualization”

- Utilized the Flask library to create a web application capable of ingesting, storing, aggregating, and visualizing telemetry data for four unmanned drones live on a public site. This project is planned to be used and/or tested by the **FAA** and TAMU Corpus Christi **ARI**.
- **Skills:** Python | Flask | SQL | Java Script | Web Dev | SQL | Databases, Excel, Networking
- **Link:** github.com/ashtontheanalyst/drone-tracking-app

“ Data Aggregation and Storage for Autonomous Research “

- Developed a custom instance of ROS/2 in Docker Compose with an application tracking over 90% of robotic instructions and visual detections from 50+ nodes on multiple linked unmanned aerial and ground vehicles.
- **Skills:** Docker Compose | ROS | Linux | Advanced Networking | Autonomy

“ Facebook Prophet Based Weather Predication “

- Created a python application that sent historical Texas weather data to the Facebook Prophet algorithm via API and returned accurate future forecasts up to 50 years.
- This project won my team **First Place** at the Texas A&M Build4Good Hackathon.
- **Skills:** Machine Learning | Meta/Facebook | Pandas | Numpy | Matplotlib
- **Link:** github.com/ashtontheanalyst/ML-weather-predict

PERSONAL PROJECTS

“ Personal Finance Tracker “

- Locally hosted web application in Flask capable of ingesting bank statements in CSV format, cleaning the format/data, creating focused tables, and visualizing in a clean format.
- **Skills:** Python | Web Dev | SQL | Data Science/Analytics | Environment Control
- **Link:** github.com/ashtontheanalyst/python-finance-app

“ DVD Screen Remake “

- Recreated the DVD loading screen with the bouncing logo in C++ using the Simple and Fast Multimedia Library (SFML). Further reinforced object-oriented programming skills.
- **Skills:** C++ | SFML | OOP | Game Dev/Design
- **Link:** github.com/ashtontheanalyst/cpp-DVD-screen

“ Click the Falling Block Game “

- One of my first OOP projects in the C++ language, this project instilled the fundamentals and techniques necessary to develop a game where users click falling blocks under pressure.
- **Skills:** C++ | SFML | OOP Fundamentals | Game Dev/Design
- **Link:** github.com/ashtontheanalyst/cpp-DVD-screen

“ Duck Hunt Remake “

- Utilized functionality within the PyGame library to develop a remake of the class, ‘Duck Hunt’. This game developed intermediate OOP skills in the Python language.
- **Skills:** Python | PyGame | OOP | Game Dev/Design | Status Tracking
- **Link:** github.com/ashtontheanalyst/python-duckhunter

EDUCATION

B.S. Economics, Minor in Cybersecurity

Dec 2025

Texas A&M University

- Courses ranging from theoretical/mathematical economics to practical data science and application. Minor in cybersecurity included course work from the school of Computer Science and others.

CERTIFICATIONS

- **CompTIA Security+**
- CompTIA Pen Test+ | In-Progress
- Google Data Analytics Professional Certification
- Google Fundamentals of Cybersecurity
- Caddy SQL Beginner and Intermediate

ORGANIZATIONS

Cyber Leader Development Program (CLDP)

Dec 2022 - Aug 2025

Texas A&M University

- This is a two-year program focused on preparing students for advanced STEM style roles within the Department of Defense. Involvement includes industry certifications, academic seminars, mentoring, and internships.

Army ROTC

Aug 2021 - May 2025

Texas A&M Warrior Training Battalion

- Senior year I was the Battalion Commander of the largest department in the country (600+) and continued to earn the title of best Senior Military College in Cadet Command.

Corps of Cadets

Aug 2021 - May 2025

Texas A&M University

- Held various different leadership positions ranging from Team Leader (3-5) to Battalion Commander (200+). Developed expertise in time management, leadership at all levels, planning large scale operations, and conducting training events.
- Notable achievement in leadership was a 100% retention rate during initial Freshman Orientation Week.

Cybersecurity, HTB, and Red Teaming Club

Various

Texas A&M University

- Participated in multiple weekly meetings for each club as well as supplemental courses, modules, competitions, and more.
- Won **First Place** at the Build4Good hackathon hosted by the organization.

AWARDS

Senior Cyberspace Badge

Air Force Institute of Technology, Air Force ROTC

- Awarded to Air Force ROTC students or adjacent, who have completed senior level training from an approved institution within the field of Cyberspace.

Rudders Rangers Pin

Texas A&M University, Army ROTC

- Given to under 5% of Cadets in Rudders Rangers, 2% in Army ROTC, and 0.5% in the entire Corps of Cadets.
- Awarded to individuals who perfectly complete multiple sections from the U.S. Army Expert Infantryman's Badge standards in the course of one academic year.

Company I-1 Merit Award

Corps of Cadets

- Awarded to an individual in the Company who served their fellow members above and beyond what is prescribed in the standard and cadence. Highest award in the Company.