

# NATHAN GARRETT HILBURN

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## EDUCATION

**University of Texas at Dallas**  
B.S Computer Science

**2022 - 2026**  
Collegium V Honors

**Lebanon Trail High School**

Relevant Coursework: AP Computer Science, Cybersecurity, Computer Science 3 Adv.

**2018 - 2022**  
GPA: 5.05/6.00

## TECHNICAL SKILLS

**Programming Languages:** Java, Python, HTML, CSS & JavaScript

**Tools:** Git, Scrum Agile Methodologies, Apache Web Server, Autodesk Inventor, Unity, Jupyter, ssh & netcat

**Operating Systems:** Windows, Linux, Unix, Mac

## WORK EXPERIENCE

**Curriculum Developer**, iCode, Frisco TX

**06/2022 – Present**

- Developing computer engineering and software classes that incorporate 3D printing, breadboards, and robotics
- Plan to design new student lessons on web development which will incorporate JavaScript and databases. The JavaScript curriculum will contain frameworks such as React.js

**Machine Learning Research Assistant**, University of Texas at Dallas

**05/2022 - Present**

- Conducting research on ConflibERT, a machine learning language model for analyzing and classifying political violence from articles
- Designing a data filter to train ConflibERT with articles on political violence in multiple languages

**Coding Instructor**, Code Ninjas, Frisco TX

**07/2021 – 03/2022**

- Taught JavaScript software development through group instruction and personal tutoring
- Instructed students in camps that included web development, 3D printing, Python, and Lego robotics
- Graded over one-hundred student software projects with feedback

## RELEVANT EXPERIENCE AND PROJECTS

**Apache Web Server & Profile Website**

**05/2022**

- Created a Linux Server, with Apache HTTP Server running to display web content
- Implemented MongoDB, and using Python created an encrypted connection between web browsers and the server
- Designed and uploaded a profile page using HTML and CSS onto the server

**Ecommerce Web Scraping Application**

**02/2022**

- Designed an application using python to parse ecommerce websites such as ebay for information on user defined products
- The web scraper would scan the HTML of websites and return information on products such as price for each item(on a csv of hundreds)

## LEADERSHIP EXPERIENCE

**President, LTHS AI/Machine Learning Club**, Lebanon Trail High School, Frisco TX

**09/2021 – 05/2022**

- Analyzed machine learning algorithms in speech/handwriting recognition, computer vision, financial forecasting
- Competed in online, worldwide competitions in number recognition and body movement recognition

**Tutor, Pre-AP/AP Computer Science**, Lebanon Trail HS

**11/2021 – 03/2022**

- Assisted in tutoring high school students learning Java and computer science concepts
- Taught data structures, recursion, inheritance, and sorting algorithms

**Team Member, DualLuna/Paragon Cybersecurity Team**, United States

**02/2021 – Present**

- Lead a competitive cybersecurity team in web-vulnerabilities and reverse engineering challenges
- Competed and placed in the top quarter of teams in competitions such as Hack-A-Sat 2, RedPwnCTF, and others

## ACCOMPLISHMENTS

**National Cyber Scholar**

**2022**

- Awarded for performance in CyberStart America and CyberPatriot

**Air Force Association - CyberPatriot**

**2021**

- Platinum tier award: placed in the top 20% of teams at the CyberPatriot state competition

**BPA State Leadership Conference**

**2021**

- Placed 8/79 in Computer Science Concepts

**Certificate of Congressional Recognition**

**2021**

- Selected to play in the Texas All-State Jazz Ensemble II