

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 ConflBERT, a machine learning language model for analyzing and classifying political violence from articles
- Designing a data filter to train ConflBERT 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