NATHAN GARRETT HILBURN

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EDUCATION

University of Texas at Dallas **2022 - 2026**
B.S Computer Science Collegium V Honors

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

Computer Science 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 (github.com/nathangarretth/Apache_Web_Server) **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, AI/Machine Learning Club, Lebanon Trail HS, 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 computer vision

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, Y3agerists/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

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