

# Aaryaa Moharir

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## Professional Summary

Motivated and passionate student seeking to pursue academic goals and career path in the field of computer science. Currently a freshman at the University of Texas at Dallas in the CollegiumV (honors) program. Successfully designed and executed a cybersecurity project under the guidance of mentor as a part of the independent study and mentorship program. Proved leadership qualities through programs like BPA (Business Professionals of America) and different volunteering programs.

## Education

### University of Texas at Dallas -Richardson, Texas

- **Degree** Bachelor of Science in Computer Science.

### Lebanon Trail High School – Frisco, Texas

- Graduated in the top 5% of my graduating class.
- Unweighted GPA of 3.99
- SAT Score 1520

## Accomplishments

- Placed 2nd in the state of Texas and advanced to the national level for “Network Design Team” and “Network Administration with Cisco” at the Business Professionals of America State Conference
- Completed and received Google’s Cybersecurity Professional Certificate
- Earned the “Java”, “Cybersecurity”, and “Network Security” IT Specialist certifications from Certiport.
- Received “Distinction” (the highest ranking) in Kathak (a form of Indian classical dance) for the past 7 years and performed at various events.

## Projects

- Simulated a cyber-attack and informed the audience of security measures that can be taken to prevent it. Most of this project was carried out using Metasploit, a well-known penetration testing tool used by professionals in the field. The components of this project involved a keylogger written in Python, a fake website created using HTML and source code from an official website, a reverse shell using inbuilt applications in Metasploit itself, and ransomware written in Java. The final product demonstrates the simplicity of gathering a user’s credentials utilizing a phishing attack, ultimately giving the attacker access to the victim's system, and allowing them to deploy ransomware remotely, if proper security measures are not implemented.
- Configured an Arduino to remotely turn on and off led lights, developed the front end of an IOT app using Android Studio, and wrote a short paper detailing the history and applications of the Arduino.
- Created Windows, Mac, and Linux hardening guides to better understand basic security measures.

## Volunteer Experience

### **Plano Library's Youth Advisory Board (Teen Street Team) | July 2021 – July 2023**

- Part of the leadership team of the Plano library's Teen Street Team which aims to make the library a better place for teenagers.
- Involved in their technology task force which finds ways to introduce the community to skills regarding technology.
- Facilitated programs to teach pre-teens or young children's certain skills such as watercolor, marble art, and more.

### **Assistant Director of Escalante Education | May 2021 – May 2023**

- Worked for over 50 hours developing lesson plans for a broad range of topics including pre-calculus, psychology, SAT Prep, and statistics.
- Helped form partnerships with local companies.
- Used marketing skills to widen the reach of the non-profit.

### **Research Assistant for the Socioeconomics Laboratory | July 2022 – August 2022**

- Spoke with hospital administrators and doctors in Nepal to research how to lower child mortality rates in Nepal.
- Used R to sort and analyze multiple datasets that had information regarding survival, treatment methods, hospital location statistics and more.
- Presented a paper that detailed a potential solution to this problem, including what areas of improvement should take precedence over others.

### **Summer Immersion Intern at Roundpier | July 2022 – August 2022**

- Engaged and communicated with a variety of international professionals and peers during workshops and virtual meetings.
- Gained knowledge surrounding finance, business, marketing, entrepreneurship and engaged in numerous individual tasks to strengthen my knowledge and skills on these topics. developed a Pitch Idea Project from scratch with international teams in two weeks.
- Aided in the development of RoundPier by addressing issues, providing solutions, and creating content. received a Certificate of Completion with Advancement and Excellence for the RoundPier's 2021 Virtual Summer Immersion Program.

### **Computer Science Teacher at Escalante Education | May 2021 – May 2022**

- Taught groups of 5-10 students about basic concepts covered in "AP Computer Science A" such as abstraction, 2D arrays, and Inheritance.

### **Assistant Teacher at Marathi Shala | May 2018 – May 2020**

- Taught Marathi (Indian regional language) to groups of 10-20 kids ranging from the ages 5-10.

### **Stem Teacher at Richwoods Academy | May 2022 – August 2022**

- Volunteered for over 60 hours
- Developed and lead STEM-centered lessons for groups of 15-30 kids, ranging from ages 5-13.

## Clubs

### **Food For A Cause**

- Founder and president of the club and have facilitated food drives, bake sales, and other events
- Lead monthly meetings and organized over 5 events, including baking goods for the school staff.

### **Business Professionals of America LT Chapter**

- Actively involved throughout all 4 years of High School

- Advanced to state and national level competition
- Worked in the capacity of one of the Directors.

**Cybersecurity Club**

- Co-founder and secretary of Lebanon Trail's Cybersecurity Club
- Educated students about new cybersecurity trends and how to keep their devices safe from cybersecurity incidents.