Teja Akella

614-441-7609 ● takella6315@gmail.com ● U.S. Citizen ● https://takella6315.github.io/

Summary:

- Computer engineering student with 2+ years of experience in cybersecurity, information security, and IT operations. Skilled in implementing information security infrastructure, balancing security initiatives, and proficient in software development and web application development.

Education:

Purdue University - West Lafayette, IN   **August 2023 - Present**

- Bachelor of Science in Computer Engineering - Expected Graduation: May 2027
- Courses: Transforming Ideas To Innovation, Modern Mechanics, Multivariate Calculus, Electrical Engineering Fundamentals I, Ordinary Differential Equations, C Programming, Electric And Magnetic Interactions

New Albany High School - New Albany, OH   **August 2019 - May 2023**

Work Experience:

- **Full Stack Developer Intern at Reffy Inc.**   **January 2024 - Present**
  - Working with software developers to implement a scalable, distributed infrastructure to handle traffic supporting all application and business operations, including a client-facing web application and a microservice backend for various functionalities, reducing customer and enterprise labor by 80%.
- **Research Intern at Purdue VIPER Lab**   **January 2024 - Present**
  - Exploring the use of convolutional neural networks to locate brain tumors captured in MRI scans, automating the analysis of MRI images, leading to a 30% higher accuracy rate in brain tumor detection
- **Air Force Research Laboratory Research Scholar - NASA**   **June 2023 - July 2023**
  - Assisted NASA and the Air Force in creating a simulation modeling the moon's environment for the Artemis 3 missions in 2025 and 2028. This simulation aids in preparing and training astronauts for the lunar south pole.
- **Air Force Research Laboratory Research Scholar - Calamityville**   **June 2022 - July 2022**
  - Created a mixed-reality multiplayer training simulation to help with Rocket Propelled Grenade (RPG) training, decreasing training costs by 85 percent.
- **Accenture Student Intern**   **January 2022 - May 2022**
  - Worked with engineers to create an internal application that was 40% faster allowing for the management of surveys and data collection from clients.

Skills:

- **Certifications:** CompTIA **Network+**, CompTIA **Security+**, and **GFACT**
- **Cybersecurity:** Network cabling, Cisco switch and router configuration, DNS Structure and Server Configuration, Troubleshooting tools, Networking Theory, Network Security methods, and Network Protocols
- **Computer Programming:** Java and Object-Oriented Concepts, MATLAB, Python, WebDev, Git, Raspberry PI, Arduino, JavaScript, Jade, HTML, CSS, Golang, TypeScript, React, Docker, Protobuffers, and Jira
- **Game Design:** Unity, Unreal Engine 4, Distributed Interactive Simulation(DIS) Protocol (Air Force Networking Protocol), and SPICE (Caltech and NASA JPL database and software)
- **Engineering Skills:** 3D CAD, experience with motors, encoders, linear actuators, and pneumatics, experience with sensors, basic shop tools, additive manufacturing, fabrication, CNC machining, rapid prototyping

Extra-Curricular and Volunteer Experiences:

FIRST Robotics   **August 2015 - May 2023**

- FRC - Programming and Mechanical subteam lead - Outstanding Freshman Award Recipient
- FTC - 2016, 2017 Robot Driver, programming lead, and mechanical lead
- FLL - Team Captain Worked with the Ohio Legislature regarding a solution for dissolving styrofoam, a non-biodegradable hazard

SkillsUSA Technical Competition   **May 2022 - May 2023**

- Placed 3rd at the Ohio State Competition in Cybersecurity and 10th for IT services

National Technical Honors Society   **May 2022 - Present**

- Conducted cybersecurity projects and practiced real-world desktop analyst scenarios.

National Honors Society/National Honors Society Tutoring Organization   **August 2021 - May 2023**

- Led multiple community projects including park cleaning, fundraisers, and organizing the tutoring organization

Center of Science and Industry (COSI) Floor Faculty Volunteer   **June 2018 - March 2020**

- 50+ hours of volunteering service by leading STEM demonstrations, guiding guests through activities, assisting with workshops, and performing live shows