

Teja Akella

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Summary:

- Computer engineering student with 3+ years of experience in cybersecurity, information security, and IT operations. Skilled in implementing security infrastructure and proficient in software and web development.

Education:

Georgia Institute of Technology - Atlanta, GA

May 2024 - Present

- Bachelor of Science in Computer Engineering w/ Cybersecurity and Distributed systems and Software Design
- Courses: Linear Algebra, Digital Systems and Design 2, History of Industrial Design

Purdue University - West Lafayette, IN - Dean's List

August 2023 - May 2024

- Bachelor of Science in Computer Engineering
- 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

Collaborated with software developers to design and implement a scalable, distributed infrastructure. This infrastructure supports all application and business operations, including a client-facing web application and a microservice backend. Successfully reduced customer and enterprise labor by 80%.

Research Intern at Purdue VIPER Lab

January 2024 - May 2024

Explored the use of convolutional neural networks for locating brain tumors in MRI scans. Automated the analysis of MRI images, resulting in a 30% increase in brain tumor detection accuracy.

Air Force Research Laboratory Research Scholar - NASA

June 2023 - July 2023

Assisted NASA and the Air Force in developing a simulation to model the moon's environment for the Artemis 3 missions in 2025 and 2028. This simulation is instrumental in preparing astronauts for the lunar south pole.

Air Force Research Laboratory Research Scholar - Calamityville

June 2022 - July 2022

Developed a mixed-reality multiplayer training simulation for Rocket Propelled Grenade (RPG) training, reducing training costs by 85%.

Accenture Student Intern

January 2022 - May 2022

Collaborated with engineers to develop an internal application, improving the speed of managing surveys and data collection from clients by 40%.

Skills:

- **Certifications:** CompTIA Network+, CompTIA Security+, and GIAC 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, HTML, CSS, Golang, TypeScript, React, Docker, SQL, and Protobuffers
- **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 (SolidWorks and Fusion), experience with motors, encoders, linear actuators, and pneumatics, experience with sensors, shop tools fabrication, CNC machining, and 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

Center of Science and Industry (COSI) Floor Faculty Volunteer

June 2018 - March 2020

- 50+ hours of volunteering service by leading STEM demonstrations and workshops.