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.