Teja Akella

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Education

Georgia Institute of Technology | GPA: 4.0   Atlanta, GA | Expected: December 2026
- Bachelor of Science in Computer Engineering w/ Cybersecurity, System and Architecture
- <u>Courses:</u> Programming HW/SW Systems, Intro to Object-Oriented Programming, Introduction to Discrete Math for CS, Linear Algebra, Digital Systems and Design 2, Statistics and Applications.

Purdue University | GPA: 3.74   West Lafayette, IN | *August 2023 - May 2024*
- <u>Courses:</u> Transforming Ideas To Innovation, Modern Mechanics, Multivariate Calculus, Electrical Engineering Fundamentals I, Ordinary Differential Equations, C Programming, Electric And Magnetic Interactions

Work Experience

Full Stack Developer | *Reffy Inc.*   Atlanta, GA | 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 | *Purdue VIPER Lab*   West Lafayette, IN | 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.

Research Scholar | *Air Force Research Lab*   Dayton, OH | June 2023 - July 2023
- Assisted NASA 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.

Research Scholar | *Air Force Research Lab*   Dayton, OH | June 2022 - July 2022
- Developed a mixed-reality multiplayer training simulation for Rocket Propelled Grenade (RPG) training, reducing training costs by 85%.

Student Intern | *Accenture*   Columbus, OH | 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%.

Projects

Prescription Management Service | Github.com/Takella6315/Prescription-Management
- Created a prototype web application that tracks and reminds elderly users of active prescriptions
- <u>Technologies:</u> **TypeScript**, TailwindCSS, React.js, Next.js, SQL, Databasing, ChatGPT API

Network Traffic Visualization | Github/Takella6315/network-packet-tracing
- Developed a Python tool to parse Packet Capture (PCAP) files generated by Wireshark. The tool maps IP addresses to physical locations using a geo-location database.
- <u>Technologies:</u> **Python**, Wireshark, GeoIP database, SMTP, Data Visualization, Network Protocol Analysis

Re-make of Agar.io game | Github/Takella6315/Agar.io-remake
- Developed the UI and UX for an online multiplayer game remake, with ongoing work on the game's physics
- <u>Technologies</u>: **JavaScript, HTML, CSS**, Canvas API, Game Design, UI/UX Development

Skills

<u>*Computer Programming:*</u> Java and OOP concepts, Python, JavaScript, TypeScript, React.js, Next.js, Git, HTML, CSS, TailwindCSS, Bootstrap, Go, Docker, SQL, PowerShell, MATLAB, Raspberry PI, Arduino, MIPS, Postgres, AWS
<u>*Cybersecurity:*</u> Network cabling, Cisco switch and router configuration, DNS Structure and Server Configuration, Troubleshooting tools, Networking Theory, Network Security methods, Wireshark, Nmap, Metasploit.
<u>*Certifications*</u>**:** **CompTIA Network+, CompTIA Security+, and GFACT.**

Extra-Curricular and Volunteer Experiences:

HyTech Racing   August 2024 - Present
- Designed and developed the Drivebrain system, focusing on optimizing vehicle performance.

SkillsUSA Technical Competition   May 2022 - May 2023
- Placed 3rd at the Ohio State Competition in Cybersecurity and 10th for IT services

FIRST Robotics   August 2015 - May 2023
- FRC - Programming and Mechanical subteam lead - Outstanding Freshman Award Recipient.