

Teja Akella

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Education

Georgia Institute of Technology | GPA: 3.92

Atlanta, GA | Expected: May 2027

- Bachelor of Science in Computer Engineering w/ Cybersecurity, Systems and Architecture
 - Courses: Intro to Malware Reverse Engineering, Digital Design Lab, Programming HW/SW Systems, Data Structures and Algorithms, Objects and Design, Intro to Object-Oriented Programming, Discrete Math for CS, Linear Algebra, Digital Systems and Design 2, Statistics and Applications.
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Work Experience

Software Engineer Intern | NASA Ames Research Center

Mountain View, CA | June 2025 - Present

- Designed and developed an interactive GUI for NASA's HADES tool using **Electron.js**, **React**, **Redux**, **TypeScript**, and **PouchDB**, enabling early-stage safety assessments of autonomous airspace systems and improving workflow efficiency and hazard identification speed by over **65%** through simulation-based analysis.

Research Intern | Georgia Tech CyFI Lab

Atlanta, GA | March 2022 - Present

- Developed a custom **Volatility3** plugin on **Linux** to analyze memory dumps from **AI/ML** processes, achieving **95%** extraction accuracy of neural network-related **Python** objects and enabling more effective tracking of residual sensitive data in machine learning models.

Full Stack Developer | Startup | Reffy Inc.

Atlanta, GA | January 2024 - Present

- Designed and implemented a scalable, secure distributed infrastructure using **TypeScript**, **React**, **Next.js**, **PostgreSQL**, **Golang**, **GCP**, **Azure**, and **Docker**, reducing customer and enterprise labor by 80% through a client-facing web application and microservice backend. Currently partnered with many top universities, such as **Emory**. Expecting more than **50,000** users this year.

Research Intern | Purdue VIPER Lab

West Lafayette, IN | January 2024 - May 2024

- Improved brain tumor detection accuracy by **30%** by automating MRI scan analysis using **CNNs** built with **TensorFlow**; used **Python**, **NumPy**, **OpenCV**, and **scikit-learn** for data processing and model training.

Research Scholar | Air Force Research Lab

Dayton, OH | June 2023 - July 2023

- Supported Artemis 3 lunar mission prep by developing a moon surface simulation in **Unreal Engine 5** using the **JPL SPICE** protocol, enabling realistic astronaut training for south pole operations.

Research Scholar | Air Force Research Lab

Dayton, OH | June 2022 - July 2022

- Cut RPG training costs by **85%** by building a mixed-reality multiplayer simulator in **Unreal Engine 5** using **Distributed interactive simulation (DIS)** protocol, with **backend** development, **Raspberry Pi** integration, and real-time sensor tracking.
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Projects

1st Overall at GT Hackalytics Datathon | Seed-Funding from Georgia Tech Create-X | Startup | Synesisai.me

- Founded SynesisAI, a BioTech AI startup building a platform to accelerate drug discovery by predicting protein-protein interactions using protein language models, with 3D structural visualizations.
- Technologies: Django, Meta ESM-2, AlphaFold, Pytorch, HTML, CSS, Bootstrap, Numpy, Pandas, NGL Viewer

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 geolocation database.
 - Technologies: Python, Wireshark, GeoIP database, SMTP, Data Visualization, Network Protocol Analysis
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Skills

Computer Programming: OOP Concepts, Java, Python, JavaScript, TypeScript, React, Next.js, C, Git, HTML, CSS, TailwindCSS, Bootstrap, Go, Docker, SQL, Postgres, x86, MIPS, MATLAB, Arduino, AWS, GCP, Tensorflow, Django, FPGA

Cybersecurity: Network cabling, Cisco switch and router configuration, DNS Structure and Server Configuration, Troubleshooting, Networking Theory, Network Security Methods, Wireshark, Nmap, Metasploit, Kali, Ghidra, IDAPro

Certifications: CompTIA Network+, CompTIA Security+, and GFACT.

Extra-Curricular Experiences:

GreyHat Cybersecurity Team | Treasurer

January 2025 - Present

- Compete in Capture The Flag (CTF) competitions, including KnightCTF and UCLACTF