

# Teja Akella

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## Education

### Georgia Institute of Technology | GPA: 3.88

Atlanta, GA | Expected: December 2026

- Bachelor of Science in Computer Engineering w/ Cybersecurity, System 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.

### Purdue University | GPA: 3.74

West Lafayette, IN | August 2023 - May 2024

- Courses: Multivariate Calculus, Electrical Engineering Fundamentals I, Differential Equations, C Programming
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## 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%.
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## Projects

### 1st Overall at GT Hackalytics Datathon | Github.com/Takella6315/ProteinAI

- Developed ProteinAI, a tool using Meta's ESM2 and AlphaFold to predict protein-protein interactions, with 3D visualizations, leveraging feed-forward neural networks.

### Prescription Management Service | Github.com/Takella6315/Prescription-Management

- Created a prototype web application that tracks and reminds elderly users of active prescriptions
- Technologies: 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.
  - Technologies: Python, Wireshark, GeoIP database, SMTP, Data Visualization, Network Protocol Analysis
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## Skills

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

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.

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## Extra-Curricular Experiences:

### GreyHat Cybersecurity Team

January 2025 - Present

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

### 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