

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
- Courses: 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

- Courses: Transforming Ideas To Innovation, Modern Mechanics, Multivariate Calculus, Electrical Engineering Fundamentals I, Ordinary Differential Equations, C Programming, Electric And Magnetic Interactions
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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

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

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
 - Technologies: JavaScript, HTML, CSS, Canvas API, Game Design, UI/UX Development
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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, PowerShell, MATLAB, Raspberry Pi, Arduino, MIPS, Postgres, AWS

Cybersecurity: Network cabling, Cisco switch and router configuration, DNS Structure and Server Configuration, Troubleshooting tools, Networking Theory, Network Security methods, Wireshark, Nmap, Metasploit.

Certifications: 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.