Adarsh Rajamanickam

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Objective

Motivated Computer Science student with a strong foundation in programming, analytics, and problem solving. Seeking opportunities to leverage skills, contribute to impactful projects, and advance technical expertise.

Education

Virginia Tech, Blacksburg, Virginia   *Expected Graduation, May 2026*
Bachelor of Science in Computer Science - Data Centric Computing | Minor in Cybersecurity
GPA: 3.82/4.00, *Dean's List*
Relevant Coursework: Computer Systems, Database Management Systems, Cloud Software Development, Data Structures and Algorithms, Computer Organization, Applied Combinatorics, Cryptography, Statistics for Engineering, Writing and Digital Media

Skills

Java, Python, SQL, C, Linux, LLM Engineering, HTML, CSS, JavaScript, MatLab, Microsoft Office, CAD

Project Experience

AI-Powered Recipe Assistant   *Jan 2025 - Current*
- Built a data-driven recipe recommendation system using **PyTorch** and **Transformers**, implementing a custom chat interface for dynamic ingredient-based recipe generation
- Trained an **Artificial Intelligence** model to manage a list of ingredients and find relevant recipes with detailed cooking instructions

InspireFly Satellite   *Sep 2024 - Current*
- Collaborated on a multidisciplinary team to develop and launch a CubeSat into orbit, designed to capture images and transmit them to a ground station
- Worked on the programming team, implementing and optimizing flight software in **Python** to enable communication between the satellite and ground station

Personal Portfolio Website   *Aug 2024 – Sep 2024*
- Built user-friendly website to maintain the portfolio of individual achievements while focusing on simplicity and easy navigation
- Developed the website and learned how to use programming languages **HTML** for website structure, **CSS** for styling, and **JavaScript** for user interaction

Social Media Visualization   *April 2024*
- Led a team to design and create a medium-scale program to take social media analytics inputs and output the data in a customizable graph
- Designed the software structure as a team, then programmed the front end as an individual in **Java** with elements to control the display

NFL Game Predictor   *June 2022 – Nov 2022*
- Created an algorithm using **Python** to take statistical inputs from NFL games and predict the outcome of future games
- Researched influences of statistical data to identify the most effective data points that can be used as inputs for the algorithm

Certifications

LLM Engineering: Master AI, Large Language Models and Agents
Udemy   *Jan 2025*

Work Experience

Summer Place - University of Hartford   **West Hartford, Connecticut**
Camp Counselor   *Summer 2023, Summer 2024*
- Led campers to ensure their safety and personal development by creating a positive environment
- Demonstrated leadership helping kids with developmental differences adapt to unfamiliar social settings