

Srihari Srivatsa

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Seeking early career positions to design and develop secure, efficient, and user-focused software solutions

Education

University of Massachusetts Amherst, Amherst, MA

May 2025

Bachelors in Computer Science | **GPA: 3.7/4.0**

- **Coursework:** Software Engineering, Data Structures and Algorithms, Machine Learning, Artificial Intelligence, Data Management, Computer Systems Programming, SWE Project Management, Computer Networks, Mobile Systems Programming, Computer Graphics, Computer and Network Security, Algorithms for Game Theory and Fairness
- **Awards & Certifications:** Dean's List Honors, Best Undergraduate Researcher Award

Skills

Coding Languages: Python, Typescript, Javascript, C, Dart, Java, x86 Assembly, SQL, MATLAB, C++

Frameworks and Libraries: Angular, React, Flask, Flutter, FastAPI, Django, Langchain, Pandas, Streamlit, WebGL, Three.js,

Developer Tools: VS Code, Linux, Git, Google Cloud Platform, Docker, MongoDB, PostgreSQL, Figma

Experience

Artificial Intelligence Engineering Intern, Radical AI, Remote

May 2024 - August 2024

- Built a Retrieval-Augmented Generation Pipeline to ingest any document(s) and custom argument(s) to create custom quizzes
- Utilized langchain, pandas, and geminiAI to develop file loaders for 10+ different file types
- Utilized VertexAI, Google Cloud Platform, and VertexAI to prompt engineer embedded vertex data into custom quizzes

Machine Learning Security Researcher, UMass Amherst, Amherst, MA

June 2024 - August 2024

- Performed a thorough analysis of the robustness of Convolutional Neural Network Architectures against adversarial attacks
- Specialized in VGG-Net and ResNet, making use of tensorflow to analyze differences in structure, accuracy, and robustness.
- Presented findings at the Undergraduate Research Night, earning the Best Undergraduate Researcher Award for my work.

Assistant Instructor, Kumon North America, Framingham, MA

September 2018 – March 2022

- Taught kids ages 5 - 18 mathematics and literature up to calculus and advanced essay writing
- Worked in a team environment, learned to communicate with parents, and worked with children with mental disabilities

Projects

Hand-motion controlled UAV Drone, Graduate Mobile Computing CS528

November 2024 - December 2024

- Developed a hand-motion-controlled UAV Drone using an esp32-s3 microcontroller and an mpu6050 IMU.
- Collected 600+ consistent samples of hand-movement data to train the Support Vector Classification Model
- Fine-tuned the SVC model using 5-fold cross validation, achieving an 89% prediction accuracy

Modista – The Next-Gen Fashion Marketplace, HackUMass XII Hackathon Project

November 2024

- Utilized Flutter and Flask to build a fashion marketplace for users to find stylists to style existing clothing and suggest outfits.
- Developed a Machine Learning model using tensorflow, scikit-learn, and pandas, that can make recommendations to provide accurate potential outfits.

Research Finder for Undergraduate UMass Students, Software Engineering CS320

February 2024 - May 2024

- Developed and enhanced the front-end of a research opportunity platform using HTML, CSS, and Material Angular, ensuring responsive and user-friendly design.
- Utilized GitHub for effective version control and team collaboration, implementing CI/CD pipelines to maintain code quality and support iterative development.

Course Planner for UMass Computer Science Undergraduates, Personal Project

May 2024 - September 2024

- Designed and implemented a centralized platform for UMass Amherst CICS undergraduates to search for classes with custom filters and generate schedules, enhancing academic planning efficiency.
- Developed the front-end using Material Angular, HTML, and CSS, ensuring an intuitive and responsive user interface.
- Integrated back-end functionality with Python, Flask, and MongoDB, leveraging OpenAI and BeautifulSoup to enable dynamic data processing and robust search capabilities.

Activities

- Eagle Scout, Experienced Carnatic Violinist and Saxophonist, Music Director of UMass Indian Classical Arts Society