Srihari Srivatsa

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Education

University of Massachusetts Amherst | B.S. Computer Science | GPA: 3.45 May 2025

Georgia Institute of Technology | M.S. Information Security (Part-time, Online) Expected Graduation: May 2028

Coursework: Software Engineering, Computer Networks, Data Applications and Management, Advanced Algorithms, Information Security, Network Security, Computer Systems, Project Management,

Awards and Certifications: Eagle Scout, Dean's List Honors, Seal of Biliteracy in Spanish

Technical Skills & Tools

Coding Languages: Python, Typescript, Javascript, C/C++, YAML, SQL, x86 Assembly

Frameworks and Libraries: React, Angular, Flask, Node.js, Pandas, PyTest, Jest

Developer Tools: Gitlab CI/CD, AWS Suite, Atlassian Suite, Kubernetes, Helm, ArgoCD, Docker, postgreSQL, MongoDB

Experience

DevOps Coop, Veracode, *Burlington, MA* June 2025 - Present

- Developed a GitLab-integrated internal portal using Backstage.io, Kubernetes (EKS), Docker (ECS), Terraform, ArgoCD, and Helm, enabling centralized service discovery, enhanced documentation, and automated service creation
- Utilized Shell and Python scripting to automate CLI workflow, data extraction, and dependency management
- Integrated over 80% of company GitLab repositories, Kubernetes pod healths, Prometheus metrics, and ArgoCD service healths into React-based dashboards to improve observability and visibility across teams
- Standardized and automated new service configuration for ArgoCD and Helm, reducing onboarding time for new services by 90%

Artificial Intelligence Engineering Intern, RealityAI Labs, *Remote* May 2024 - August 2024

- Engineered an LLM based quiz generation tool using LangChain, GeminiAI, and GCP VertexAI, enabling educators to automatically generate quizzes from structured/unstructured files (10+ formats)
- Leveraged prompt engineering and retrieval-augmented generation (RAG) to extract data from embedded documents
- Demonstrated cross-team collaboration and efficient delivery with a small agile team using GitHub and CI/CD concepts

Machine Learning Security Researcher, UMass Amherst, *Amherst, MA* June 2024 - August 2024

- Researched adversarial robustness of CNN architectures (VGG, ResNet) using TensorFlow, exploring potential vulnerabilities in ML-based classification systems
- Presented work at the Undergraduate Research Night, earning the Best Undergraduate Researcher Award for my work

Projects

CICS Undergraduate Course Planner February 2024

- Developed a course planner for CICS students to use to find courses with select criteria and create a 4-year course plan using Flask, Python, Material Angular, Javascript,and OpenAI
- Streamlined the course search process for CICS students saving dozens of hours spent looking for the right courses

Hand-motion controlled UAV Drone November 2024 - December 2024

- Developed a hand-motion-controlled UAV Drone using an esp32-s3 microcontroller, an mpu6050 IMU, MATLAB, Python, C, and Scikit-Learn.
- 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 of hand motions