

Sriram Natarajan

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EDUCATION

University of Illinois, Urbana-Champaign

Expected Graduation Date: 05/2027

Major: Computer Science + Linguistics, Minor: Data Science, GPA: 3.93/4.0

SKILLS

Languages: Python, C++, Java, JavaScript

Tools: PyTorch, TensorFlow, OpenAI API, Scikit-learn, Pandas, NumPy, Flask, PostgreSQL, Git/Github, AWS (EC2, S3)

EXPERIENCE

Hacker Dojo, Software Engineer Intern

April 2025 - Present

- Led the design and MVP launch of Higher Road To You, an AI powered-mental health platform, resulting in 1,000+ users
- Integrated OpenAI API to deploy a support chatbot that responds to user messages based on detected emotional tone
- Developed a Python backend to track user input and behavior to recommend personalized prompts and local events, deployed via AWS EC2 using similarity scores from user profiles

Avian Conservation Through Spatial Data Analysis, Student Research Associate

October 2024 - Present

- Processed satellite imagery datasets using Google Earth Engine, identifying 400+ Midwest grassland regions based on vegetation index, soil composition, and climate data
- Trained and fine-tuned Machine Learning model using TensorFlow, Pytorch, and Scikit-Learn to predict grassland suitability for various bird species, achieving 82% accuracy

Illinois Design Challenge, Infrastructure Lead

September 2024 - Present

- Led infrastructure development for a full-stack hackathon platform built with Flask backend and React frontend, designing dashboards for real-time event tracking
- Collaborated across design and logistics teams to ensure seamless deployment throughout 48-hour live event (zero reported platform crashes with over 500 participants)

Beyond Terra, Innovation Lead

September 2023 - July 2024

- Redesigned a second-hand drone to reforest local areas, achieving automated planting of over 3,000 seedballs
- Developed a GPS coordinate tracking system for seedball locations through Python and AWS RDS
- CAD-modeled, 3D-printed, and programmed a real-time embedded seed-dispersing subsystem using C++, leveraging Arduino microcontrollers and servo motors for automated deployment

PROJECTS

FarmSmart, First Place Hack Illinois

February 2025 - March 2025

- Launched an interactive AI Chatbot (OpenAI API) to help farmers optimize crop yield and costs through data-driven insights
- Leveraged React Native, TypeScript, and Chart.js to display real-time profit predictions in the forms of bar graphs and charts
- Devised a crop disease detection model through OpenCV and Tensorflow with 85% classification accuracy, providing tailored treatment recommendations to improving crop health

Calmoto

December 2024 - February 2025

- Designed a real-time driver drowsiness detection system using TensorFlow, OpenCV, & Pytorch, achieving 88% accuracy in detecting fatigue indicators
- Integrated LLM's (ElevenLabs and OpenAI APIs) to read storybooks to drivers and generate interactive questions to ensure drivers were awake/alert
- Built an Angular-based dashboard for real-time monitoring, displaying fatigue alerts and driver response analytics

IlliniResearch

September 2024 - December 2024

- Constructed a Flask-based platform to connect UIUC students to over 500+ research opportunities on campus, storing structured faculty data in PostgreSQL database
- Implemented Cold Email Generator (OpenAI API) and Resume Reviewer (TF-IDF) tools to help students tailor outreach to professors and research listings

LEADERSHIP & COMMUNITY INVOLVEMENT

Course Assistant, Computer Science 124 Honors

January 2025 - Present

- Held 1:1 technical debugging sessions with students, explained recursion, trees, and algorithm design