

Sahana Hariharan

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EDUCATION

University of Illinois at Urbana-Champaign

May 2027

Bachelor of Science in Computer Science and Statistics

GPA: 3.95/4.0

Relevant Coursework: Data Structures, Algorithms & Models of Computation, Computer Systems, Applied Statistics, Data Science, Statistical Methods, Statistics and Probability, Computational Linear Algebra

TECHNICAL SKILLS

Programming Languages: Python, C/C++, Java, R, Arduino C, JavaScript, HTML/CSS, SQL

Frameworks: OpenCV, TensorFlow, PyTorch, React Native, Node.js, Flask, Pandas, Pyspark, Numpy

Developer Tools: Version Control (Git, GitHub, GitLab), Docker, Eclipse, Firebase, Unit Testing, XCode, Databricks

EXPERIENCE

Data Engineering Intern - Audit | KPMG

Jun 2025 – Aug 2025

- Prototyping a low-discrepancy, message-passing Monte Carlo engine that streamlines monetary-unit sampling, improving sample coverage consistency and reducing simulation run-time
- Built a PySpark pipeline in Databricks to validate synthetic audit data, enabling scalable and reusable test datasets for comprehensive internal testing and sampling
- Designing a unified Databricks notebook (within KPMG's proprietary workflow) to extract and format various ERP exports (ex. SAP S/4HANA, NetSuite), streamlining preprocessing and debugging

Full-Stack Project Lead | CS124 Honors

Sept 2024 – Present

- Leading 10 students in developing a full-stack web-based study room tracker using React.JS, MongoDB, and Google Maps API for real-time location tracking of 40+ study spots
- Guiding students in creating a sentiment analysis feature tracker for products, powered by Vader and Gemini
- Overseeing project life-cycle from planning to deployment, prioritizing features and ensuring alignment with course goals to solve student challenges

Software Engineer | Disruption Lab

Sept 2024 – May 2025

- Partnering with an NGO to design and implement a robust software solution that helps safeguard the integrity of digital content
- Creating and testing over 15 models, including a Hybrid Vision Transformer (ViT) and Convolutional Neural Network (CNN) model, to detect deep fakes in image and media content
- Curating and preprocessing datasets of over 20,000+ real and fake media, ensuring that the training data is diverse

Software Engineering Intern | Prognosis

May 2024 – Aug 2024

- Leveraged Large Language Models (LLMs) to transform 3,000+ unstructured patient records into structured knowledge graphs, enabling AI-driven predictions of diseases and personalized treatment recommendations
- Conducted a comparative analysis of Node2Vec and OpenAI embedding methods within a Neo4j database to evaluate their effectiveness in generating meaningful patient knowledge graphs
- Developed a responsive web application using React.js, integrating a robust front-end with an intuitive user interface to display patient information in a dynamic, searchable table

PROJECTS

Predictive Crime Analysis | Python, Flask, Pytorch, Pandas

May 2024 – Aug 2024

- Employed advanced machine learning algorithms, including Random Forest and LSTM networks, to analyze over 8.2 million rows of complex crime data in Chicago
- Developed and deployed a user-friendly, interactive web application using Flask that provides real-time crime data visualizations
- Integrated live crime data feeds and implemented APIs to ensure the application was continuously updated, enhancing its utility for public safety officials and community members

Search & Rescue | Python, Raspberry Pi, OpenCV, TensorFlow, Git

Feb 2024

- Developed SAR (Search and Rescue) robot using sensors, camera, and Raspberry Pi that navigates obstacles and identifies humans in distress, enhancing first responder capabilities as part of a hackathon
- Integrated hardware and software using VNC Viewer, GPIO Library, VS Code, and OpenCV for real-time data processing and obstacle avoidance, gaining a deep understanding of robotics applications