

# Sriram Sendhil

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## Education

University of Texas at Dallas

B.S. in Computer Science

Richardson, TX | May 2025

**Coursework:** Software Engineering, Computer Vision, Data Structures & Algorithms, Discrete Math, Operating System

## Skills

**Languages:** Python, Java, JavaScript, C/C++, Dart, SQL, HTML, CSS, SQL

**Frameworks:** NextJS, TensorFlow, Django, Flutter, Streamlit, Node, GraphQL

**Tools:** Docker, Git/GitHub, Unix/Linux, React, Next.js, Matplotlib, NumPy, OpenCV API, Groq, Postman, Llama API

## Experience

### ThryftShip

Full Stack Developer Intern

Remote | Jan 2025 – Present

- Developed and maintained production-level web apps using **Agile** workflows with **Next.js, Tailwind, Django, GraphQL, and Docker**
- Led full integration of inventory page—from UI and backend architecture to schema design and deployment
- **Partnered with founders and investors** to deploy scalable backend features and UI enhancements **used by 500+ nonprofit users**
- Wrote unit tests in Python to ensure rendering accuracy and uphold data integrity and security
- Refactored critical queries and component load cycles to **reduce API latency by 35%** and boost frontend responsiveness
- Introduced **Redis** caching for high-traffic queries, **cutting response times by 40%** and easing backend load during spikes
- Designed **GraphQL endpoints to reduce over-fetching** and boost frontend flexibility, balancing added resolver complexity
- Conducted multiple user feedback loops and shipped redesigned UI and core functionality in under **72 hours for an investor-facing demo**

Front End Developer Intern

Remote | Aug 2024 – Dec 2024

- Collaborated with backend engineers to build a fully integrated inventory page with custom data types and cross-platform compatibility, **increasing customer acquisition by 24% in March alone**
- Optimized **Redux state and UI/UX to cut re-renders by 40%**, improve **load time by ~1s**, and enhance accessibility
- Created documentation and implemented modular, scalable frontend code to support long-term development

**The Legacy Senior Communities** | Full Stack Web Developer

Dallas, TX | Jan 2024 – May 2024

- Built a full-stack application to digitize the housekeeping workflow for **50+** staff using **Next.js, Prisma ORM, Redux, MaterialUI, SQL**
- **Redesigned and normalized relational schemas**, reducing query redundancy and **boosting backend scalability by 60%**
- Developed dynamic dashboards to monitor and manage employee activities through a custom UI
- **Collaborated with stakeholders and management** to deliver key features that increased **operational productivity by 40%**

## Projects

**ForensicSight - Bloodstain Classification Research** | Python, OpenCV, YOLOv7, TensorFlow, RoboFlow

Aug. 2023 – Present

- Presenting computer vision based bloodstain classification in **Academy of Criminal Justice Sciences (ACJS) 25'** conference
- Applied **SSD MobileNet V2, FPNLite, YOLOnas, and YOLOv11** for real-time object detection on **900+ forensic images**.
- Achieved accuracy score of **87%** in correctly identifying multi-surface forensic crime scenes through thorough data analysis.
- Automated image augmentation for **300+** images and text files with OpenCV, NumPy, Tensorboard, and Seaborn.

**TalkTuahNutritionist** | Node, Tailwind, Groq, Retell AI, Meta Smart Glasses, OpenAI, Llama, MemeNome, Postman

Feb. 2025 – Feb. 2025

- **Winner for Emerging Technologies at DevFest 25' @ Columbia University** competing against **400+** for developing an AI-powered nutrition tracking app integrating Meta smart glasses, AI call agents, and RAG models for real-time, hands-free dietary guidance.
- **Bypassed Meta Smart Glasses' SDK limitations** with **web scraping** to automate food logging and nutrition analysis.
- **Integrated 5 AI models** (OpenAI Vision, Groq, Llama, Retell AI, memeNome TTS), optimizing API coordination and reducing latency.
- **Automated AI call agent setup** with Retell AI, enabling voice-driven dietary customization without manual input.

**EcoFy** | NextJS, Tailwind, AWS(S3, IAM, Rekognition), Open Food Fact, OpenAI

Jan. 2025 – Jan. 2025

- **1st Place for AWS:** Developed a financial app to scan and analyze utilities, competing against **700+** participants in TAMUHack hackathon.
- Feature extracted data from receipts using **AWS S3, IAM, and Rekognition**, cross-referenced products with the **Open Food Facts API**, and generated **Environmental, Social, and Governance (ESG)** scores for individual products with an average score calculation
- Built a mobile web app with **Next.js** and **Tailwind CSS** featuring a dashboard, receipt/utility scanners, analysis tools, and a chat system.
- Designed a **Retrieval-Augmented Generation (RAG)** chatbot using **OpenAI** and custom data for real-time sustainability insights.

## Leadership

University of Texas at Dallas | Short Term Working Group Fellow

Richardson, TX | May. 2024 – Present

- Led a **team of 10 students** and faculty to redesign and enhance a university-level software engineering course
- Created **4 tutorials** and led **3 workshops** on full-stack dev for **120+ students**, earning a **4.9/5 average rating**

**Association of Computing Machinery (ACM) - Research** | Research Lead

Richardson, TX | Dec. 2023 – Jun. 2024

- Redesigned and optimized a custom preprocessing method for Eulerian Video Magnification, mentoring a **team of 5** in spatial deconstruction and temporal processing techniques to analyze **1,506 videos**.
- Conceived and led a **10-week research project** on non-invasive health monitoring of drivers via video analysis, providing **technical mentorship** and equipping team members to present a research paper to industry specialists.