

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, Networks, 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

Thryft Ship

Full Stack Developer Intern

Remote | Jan 2025 – Present

- Developed/maintained **production-level** web applications using **Agile** methods with **Next.js, Tailwind, Django, GraphQL, and Docker**
- Partnered with founders and investors to design and deploy scalable backend features, including **new data models, custom GraphQL mutations and queries, and tailored UI enhancements** leveraged by a **nonprofit supporting 500+ users**.
- **Wrote unit tests in Python** to ensure proper rendering of inventory data and user information while upholding data integrity and security
- Contributed toward feature enhancements and system optimizations, leading to a **24% revenue growth in March**.

Front End Developer Intern

Remote | Aug 2024 – Dec 2024

- Collaborated with founders and backend engineers to build a fully integrated inventory page avoiding regressions with custom data types and cross-platform functionality, **increasing customer acquisition by 15%**.
- Reduced re-renders and load times by **debugging regressions** and optimizing global state management using **Redux Toolkit**.
- **Revamped UI/UX designs** across all platforms to enhance accessibility and boost user engagement
- Created comprehensive documentation and implemented scalable code, establishing a robust foundation for future development.

The Legacy Senior Communities | *Full Stack Web Developer*

Dallas, TX | Jan 2024 – May 2024

- Utilized **Next.js, Git, Prisma ORM, Redux, MaterialUI, and SQL** to develop a comprehensive web application to digitize the housekeeping workflow for a **50+ user base**
- Redesigned and normalized databases to improve scalability and **reduce redundancy by 60%**.
- Updated UI to meet company standards and displayed graphical views of **16+ employees** for data-based tracking.
- Collaborated closely with management and liaisons to implement key functionalities, **increasing overall 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 **10** students and faculty to optimize a university-level **SWE course** by refining curriculum, projects, and technical materials.
- **Developed and recorded comprehensive online resources** on Next.js, HTML/CSS, SQL, Figma, and API integration while providing hands-on mentorship in full-stack development, SDLC implementation, and GitHub workflows.

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.