Tharunya Sundar

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EDUCATION

Binghamton University, SUNY, Thomas J. Watson College of Engineering and Applied Science   **New York, USA**
Master of Science in Computer Science   *December 2025*
Cumulative GPA: 3.375/4.00
SASTRA University   **Tamil Nadu, India**
Bachelor of Science in Information and Communication Technology   *August 2024*

PROFESSIONAL EXPERIENCE

Haven AI - Wellness App, PM Accelerator | *Lead Engineer & Frontend Developer*   **Remote, USA**
Tech Stack : React Native, JavaScript, Firebase Python, FastAPI, GPT-4, MongoDB, Git/GitHub   *May 2025 - Present*
- Designing and developing a cross-platform mobile MVP that delivers proactive, GPT-4-powered behavioral support to help users quit vaping
- Building and maintaining a dynamic frontend in React Native while integrating FastAPI-based backend services for real-time trigger detection, intervention logic, and secure data flow

Craft Lab | *Project Assistant*   **Binghamton, NY**
Tech Stack : Python, Pandas, Numpy, GenAI , Git/GitHub   *February 2025 - May 2025*
- Built a structured JSON dataset of GMAT questions and designed a benchmarking framework using Tree of Thought prompting to enable scalable, consistent LLM evaluation
- Compared single-model vs. multi-model performance to analyze accuracy trends and reasoning failures, supporting improvements in prompt engineering and model fine-tuning

Verzeo | AI *Project Intern*   **Tamil Nadu, India**
Tech Stack : Python, TensorFlow, Keras, yolov5, *CNN, OpenCV, NumPy, Pandas, Streamlit*   *October 2022 – December 2022*
- Built and deployed a real-time face mask detection system using YOLOv5, and optimized it with MobileNetV2 for lightweight, edge-friendly inference
- Deployed the application on Streamlit Cloud, enabling scalable, live demos with real-time OpenCV-based input capture

PROJECT & LEADERSHIP EXPERIENCE

Patient CRM Dashboard | *Full stack Development*   *April 2025 - May 2025*
Tech Stack: Next.js, React.js, JavaScript, Node.js, Material UI, Cloudflare Workers, REST API , Validations, Intercom
- Developed and deployed a full-stack, cloud-hosted CRM dashboard using Next.js and Node.js to automate patient intake. Implemented CSV uploads, inline editing, and real-time validation with secure API sync, token-based authentication, and responsive UI for front-desk workflow automation.

Weather Check | *Full stack Development*
Tech Stack : React, JavaScript, Node.js, OpenWeather API, Vercel , REST API, Git/GitHub   *March 2025*
- Utilized the OpenWeather API to fetch real-time and multi-day weather forecasts, enabling users to track both current and historical weather data based on location inputs

CodeFest Hackathon, [Winner] *conducted by ColorStackBU*   *September 2024*
- Developed a real-time campus event discovery platform with the best UI design, implementing secure authentication using JavaScript, HTML, and CSS

ChatApp | *Full stack Development*   *April 2025*
Tech Stack: React.js, Node.js, Express.js, JavaScript, Socket.io, MongoDB Atlas, Redis Pub/Sub, Nginx, JWT, HTML, CSS
- Built a fault-tolerant real-time chat application enabling instant messaging with user authentication, presence tracking, and message persistence. Scaled backend with Redis pub/sub and Nginx load balancing to support high availability across multiple server instances.

Product App Admin DashBoard | *Full stack Development*   *March 2025*
Tech Stack : React, JavaScript, Node.js, Express, MongoDB, Render, Git/GitHub
- Developed an admin dashboard for product management with CRUD functionalities, integrated RESTful APIs for seamless data handling, and deployed a responsive React-based interface on Render for scalability and accessibility.

Binghamton University, International Student and Scholars Services (ISSS), *Leadership Volunteer*   *August 2024*
- Assisted 60+ new international students, Led four campus tours, provided detailed insights on key services like health counseling, academic buildings, departments, and addressed student questions on academic life at Binghamton University

Binghamton University, Ernst Young Tech X Case Competition, *Consulting Team Representative*   *October 2024*
- Analyzed Starbucks' market challenges and proposed AI-driven strategies like dynamic pricing and express service stations to enhance customer experience

TECHNICAL SKILLS

Languages: Python, C/C++, JavaScript, React, SQL, MongoDB, HTML5, CSS3, TailwindCSS
Frameworks & Libraries: TensorFlow, OpenCV, Scikit-learn, Pandas, Streamlit, Node.js, React.js, Express.js, Next.js
Additional: Data Structures and Algorithms, Complexity Analysis, NoSQL, REST API, FAST API
Certifications: Advanced Learning Algorithms , The Complete JavaScript Course from Zero to Hero