Tharunya Sundar

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EDUCATION

Binghamton University, SUNY, Thomas J. Watson College of Engineering and Applied Science

Master of Science in Computer Science   ***Expected December 2025***

Cumulative GPA: 3.375/4.00

SASTRA University, Tamil Nadu, India

Bachelor of Science in Information and Communication Technology   ***August 2024***

TECHNICAL SKILLS

Languages: Python,C/C++, Java, JavaScript, React, SQL, MongoDB, FireBase, HTML5, CSS3, TailwindCSS

Software & Tools: Android Studio, Jupyter Notebook, Google Colab, Git, Docker, VS Code, Anaconda, Linux, MySQL

Frameworks & Libraries: TensorFlow, Keras, PyTorch, OpenCV, Scikit-learn, Pandas, Matplotlib, Streamlit, Node.js, React.js

Additional: Tableau, Data Visualization, EDA, REST API, Databases, RDBMS, JSON, XML

Certifications: Advanced Learning Algorithms , The Complete JavaScript Course from Zero to Hero

PROFESSIONAL EXPERIENCE

Verzeo, AI *Project Intern | Tamil Nadu, India*   ***October 2022 – December 2022***

Tech Stack : Python, TensorFlow, Keras, CNN, OpenCV, Pillow, Streamlit, NumPy, Pandas, Streamlit Cloud, Git/GitHub

- Created a real-time face mask detection system using TensorFlow and MobileNetV2, achieving 94% accuracy
- Developed and deployed a browser-based front end with Streamlit for real-time image-based detection using OpenCV

Educational AI, *Research Assistant*   ***February 2025 -- Present***

Tech Stack : Python, Pandas, Numpy, GenAI , LLM , JSON, OpenAI API, HuggingFace Transformers, Git/GitHub

- Building a structured dataset of GMAT/SAT Q&A in JSON format, improving AI model evaluation efficiency
- Designing a benchmarking framework to evaluate LLM accuracy on standardized test questions, analyzing single-model vs. multi-model performance

PROJECT EXPERIENCE

Weather Check, *Full stack Development*   ***March 2025 -- Present***

Tech Stack : React, JavaScript, Node.js, Express, Firebase (Auth & Firestore), OpenWeather API, REST API, Git/GitHub

- 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
- Implementing Firebase Firestore to store and manage users' weather search history and responsive user interface with React and Fetch API, ensuring smooth API communication and a seamless user experience

Library Management System, *Full stack Development*   ***October 2024 -- December 2024***

Tech Stack : TypeScript, Node.js, MongoDB, Zod, Mocha, Chai, REST API, npm, Git/GitHub

- Developed a TypeScript-based library system with MongoDB, enabling CRUD operations for book and borrower management
- Integrated Zod for type-safe validation and wrote unit tests using Mocha and Chai to ensure system reliability

Ping Tool, *Android Development*   ***February 2024***

Tech Stack : Kotlin, Android SDK ,Gradle, Jetpack ViewBinding, Android Intents, XML (UI Design), GitHub

- Created an android app that allows users to enter a domain name and test network connectivity by sending ICMP echo requests, measuring response times, and displaying real-time results

Explorer Transportation Data Science Project, *Data Science Trainee | New york City*   ***January 2025 -- Present***

Tech Stack : Python (Pandas, Matplotlib, Geopandas), Time Series Analysis (Statsmodels, STL), Geospatial Visualization (Folium, Plotly), Google Colab, GitHub, Slack

- Applied geospatial and time-series analysis to NYC crash data (2013–2024), identifying high-risk intersections and peak crash trends for safety recommendations

LEADERSHIP EXPERIENCE

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

EXTRACURRICULAR EXPERIENCE

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

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