

# Sri Harisahas Thavittupalayam Manivannan

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## EDUCATION

### Georgia State University

Atlanta, GA

*Bachelor of Science in Computer Science, Minor in Mathematics, Certification in Data Science* 2022 – Current

- President's List: Fall 2022, Spring 2023, Fall 2023
- Dean's List: Spring 2024, Summer 2024

### *Bachelor of Business Administration in Computer Information Systems*

Atlanta, GA

*Dual Degree - GPA: 4.00*

*2024 – Current*

## TECHNICAL SKILLS

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

**AI/ML & Data Science:** PyTorch, EfficientNet, OpenCV, OCR, Google Generative AI, Pandas, NumPy, Scikit-Learn

**Web & App Development:** React.js, React Native, Tailwind CSS, FastAPI, Google Firestore

**Software & Tools:** GitHub, VS Code, MySQL, PowerShell, DBeaver, Google Cloud Platform

**System Architecture:** Multi-threading (ExecutorService, ConcurrentHashMap), API Integration (Google CalDAV)

**Soft Skills:** Leadership, Problem-Solving, Time Management, Adaptability, Attention to Detail

## PROJECTS

### Cervico — AI-Powered Cervical Health Platform (In Progress)

- Developed an AI dilation estimator using PyTorch and EfficientNet for ultrasound analysis.
- Engineered synthetic data generation and image preprocessing with OpenCV and albumentations.
- Built an intuitive React.js & Tailwind CSS frontend for dilation tracking and pregnancy insights.

### NeuroSpeak — Hackathon Winning AI Speech Therapy Platform

- Developed a real-time AI speech assistant that assists individuals with speech disorders.
- Built an interactive React Native frontend for seamless user interaction.
- Leveraged FastAPI and Google Generative AI for natural language processing and feedback.
- Won 1st place at the **Emory Hackathon 2025** for innovation in healthcare.

### CareMate — AI-Powered Healthcare App

- Built a Kotlin-based Android app with a FastAPI backend for medication safety.
- Integrated OCR for automated medication input and AI-driven analysis of drug-drug & drug-food interactions.
- Provided personalized health recommendations based on user data (blood pressure, weight, height).

### Tiny Tasks — ADHD-Friendly Productivity App

- Designed a structured productivity app to help ADHD users manage schedules effectively.
- Built the frontend using React Native for a seamless cross-platform experience.
- Developed a FastAPI backend with Google Firestore for real-time data management.
- Integrated Google CalDAV API for calendar synchronization, with plans for Apple and Outlook integration.

### Multi-threaded Web Crawler — High-Performance Data Scraper

- Built in Java with ExecutorService for dynamic thread management.
- Optimized URL tracking with ConcurrentHashMap for efficiency and recovery.
- Achieved 1,000 URL crawls in under two minutes with ten threads.

## LEADERSHIP AND COMMUNITY INVOLVEMENT

### Hindu Yuva at GSU

Atlanta, GA

*President (Apr 2024 – Present) — Creative Design Lead (Aug 2023 – Apr 2024)*

- Increased event attendance by 300%, growing from 80 to 250+ participants through strategic outreach.
- Managed \$10K+ in budgets, overseeing 10+ major events and optimizing resource allocation.
- Led a team of 15+ members, driving engagement, mentorship, and leadership development.
- Boosted social media reach by 500%, executing campaigns that expanded audience engagement.