

# Sri Harisuhas 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

Bachelor of Business Administration in Computer Information Systems

2024 - Current

• GPA: 4.04 | Presidents List: Fall 2022, Spring 2023, Fall 2023

Dean's List: Spring 2024, Summer 2024

## 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 albumations.
  - Designed an end-to-end AI pipeline for training, evaluation, and real-time predictions.
  - Built an intuitive React.js & Tailwind CSS frontend for dilation tracking and pregnancy insights.
    - **Tech: PyTorch, EfficientNet, OpenCV, PIL, albumations, React.js, Tailwind CSS**
- **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.
  - Implemented **task breakdown & time-blocking** to reduce overwhelm and improve focus.
- **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.
  - Scalable modular design with custom crawl depth & error handling.
  - Achieved **1,000** URL crawls in under two minutes with ten threads.

## LEADERSHIP AND COMMUNITY INVOLVEMENT

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.**