Thirulokesh Alagarsamy

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Education

Sai University   **Thiruporur, TN**
Bachelor of Technology, Computing and Data Science.   Graduation Date: 2026
Entrepreneurship club - President [2022-2023]
Student Government - Treasurer [2023-2024]

HLC International School   **Chennai, TN**
IGCSE: 82% | A Level: 73%   Graduation Date: 2022
Robo Soccer - 3rd place
Robotics Team Captain

Experience

ProtoHubs.io   **Navalur, Chennai**
Technical Intern   June 2023 - July 2023
- **Developed** a mobile app prototype from scratch, showcasing advanced programming skills.
- **Researched** and implemented Android-Linux integration via Bluetooth.
- **Programmed** embedded C code snippets, demonstrating low-level coding expertise.
- **Gained hands-on** experience with 3D printing and post-processing for rapid prototyping.
- **Established** socket communication between Python and ESP32 using embedded C.

Projects

- **Python Machine Learning Project** *[March 2025]*
  Created a code that analyses a user's interest by tracking their choices in my UI. It also tracks your skillset using the user's input data. Collection of this data to show which career path fits the user the best.
- **Python Data Scraping Tool** *[August 2024]*
  Created a python based tool which can be used for targeting users to cold-DM on instagram and LinkedIn. Tool asks for what type of users you are interested in and their designation and profile type to which it searches and sends the data to a Google Sheets to store the data of the user - Name, Instagram ID/LinkedIn, Phone number, Email ID.
- **CarbonTrack - App Development using Thunkable** *[June 2023 - July 2023]*
  Developed a no-code application using WiFi to extract and visualize real-time vehicle pollution data from an ESP32-connected ECU. Designed an intuitive interface to provide users with accurate insights and recommend eco-friendly fuel options at nearby gas stations.

Activities

Blue Cross of India - Robotics   **July 2020 – November 2020**
- **Led** a robotics project for Blue Cross of India, ensuring efficient teamwork and execution.
- **Conducted** strategic meetings with BCI experts to align goals and optimize solutions.
- **Designed** innovative feeding mechanisms for street dogs based on behavioral analysis.
- **Solved** a complex problem in under two months, rapidly progressing to prototyping.

Robotics - Course in Hexapod robots and IoT   **January 2020 – November 2020**
- **Built** four-wheeled robotic cars and implemented RF communication using complex circuitry.
- **Engineered** a hexapod robot, replicating spider-like movement with servo motors.
- **Worked hands-on** with circuit boards, from soldering to prototyping on breadboards.
- **Mastered** IoT with Raspberry Pi, developing a personal AI voice assistant like Google/Alexa.

Freelance No-code Web Development   **August 2024 – Present**
- **Delivered high-quality websites for real clients**, consistently meeting tight deadlines while ensuring customer satisfaction.
- **Designed and developed responsive websites**, utilizing HTML to enhance user experience.
- **Managed time efficiently** to balance multiple projects, prioritizing client needs and delivering tailored solutions.
- **Built strong client relationships** by maintaining clear communication and iterating designs based on feedback to exceed expectations.

Freelance Digital Marketing   **July 2023 – Present**
- **Executed digital marketing strategies** for clients, mastering content writing, video editing, and photo editing to create engaging campaigns through meta ads.
- **Successfully managed hard deadlines** while maintaining long-term client relationships, ensuring consistent growth and satisfaction.
- **Collaborated** with prominent South Indian content creators, delivering tailored solutions to amplify their online presence.
- **Developed** strong pitching and negotiation skills by cold emailing, presenting ideas, and closing deals, significantly enhancing communication and business acumen.

VIT Chennai - Hackathon   **August 2024**
- **Developed** a TinyML-IoT based solution using ESP32 to analyze vehicle emissions and predict CO_2 impact, raising user awareness.
- **Integrated** the system with a vehicle's ECU for real-time data evaluation and actionable insights.
- **Proposed** a fuel optimization solution by recommending specific petrol types based on engine performance and bunk quality.
- **Addressed environmental challenges** through innovative problem-solving and hardware-software integration.
- **Placed** in the top 30 out of 1,500 teams.

Positions of Responsibility
Undergraduate Student Government - Treasurer   **November 2023 – November 2024**
- **Managed** student finances, expenses, and financial documentation with precision.
- **Created** budgets and conducted financial analysis to optimize resource allocation.
- **Developed** strong people skills, mastering strategic communication for effective decision-making.
- **Honed** time management and resource optimization for maximum efficiency.

Entrepreneurship Club - President   **November 2022 – November 2023**
- **Led** outreach initiatives, connecting with industry leaders and CEOs for university talks.
- **Built** strong professional networks, enhancing industry-academia collaboration.
- **Developed** strategic communication and negotiation skills to drive engagement.

Volunteering
Volunteered for the University's induction committee
- Took care of 150+ new incoming students.
- Managed bus logistics.
- Clear communication with event managers and vendors.

Volunteered for the University's first convocation event
- Part of the escort team to take care of high profile individuals.
- Maintained strict discipline while conversing with high profile chief guests.

Skills & Interests

Programming: Python, C, C++, C#, HTML

Technologies: VS Code, Arduino, Raspberry Pi, ESP32, Fusion360, Blender, Photoshop, DaVinci, Adobe Premiere Pro, Excel, Coppelia Sim, Jupyter, Wix, Shopify, Bubble, Thunkable

Libraries: TensorFlow, PyTorch, Sci-Kit Learn, NumPy, Pandas, BeautifulSoup, Matplotlib

Language: English - Very Fluent, Tamil - Very Fluent

Interests: Filmmaking, Sports - Football & Cricket, Web development, Editing, Marketing