Alan S

Student at Sri Ramakrishna Institute of Technology | Passionate on Capturing Moments | Student Innovation Ambassador - HIVE, SRIT | ASME Member | Competitive Programming & Machine Learning Enthusiast | Graphic Designer

Address: Coimbatore, Tamil Nadu, India

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- *Alan is an enthusiastic Computer Science and Engineering student at Sri Ramakrishna Institute of Technology, driven by a passion for solving complex problems and contributing to meaningful innovations in the tech world.*
- *Skilled in programming languages like Python, MATLAB, C, and Java, Alan has also developed a strong understanding of data structures and algorithms. His experience includes hands-on projects in Machine Learning and hardware-based innovations, with a growing focus on Data Analytics and Artificial Intelligence.*
- *In the recent days, Alan has showcased his skills and dedication by participating in renowned competitions like ACM ICPC and presenting his Sustainable Development Goal (SDG)-focused project on Facial Emotion Recognition at ASME TN-NOVATE and other symposiums. To enhance his coding expertise, he actively engages with platforms like CodeChef and Codeforces.*
- *Beyond his academic pursuits, Alan holds several key roles in his institution:*
- *- Media Relations and Outreach Specialist of The Competitive Programming Club, SRIT - Executive Member of TEKACE-SRIT - Member of the ASME SRIT Student Section - Executive Member of the Anti-Drug Cell, SRIT*
- *His leadership and organizational skills have been recognized through certifications for coordinating events like "Codeathon 2024" and ASME TN-NOVATE, where he also excelled as the lead photographer.*
- *With a career goal to specialize in Data Analytics, Alan is eager to connect with professionals and collaborate on impactful projects that bridge technology, innovation, and creativity.*

EXPERIENCE

The Competitive Programming Club, SRIT, Coimbatore
July 2024 - Present

Media Relations and Outreach Specialist

- Currently managing media relations and outreach activities for the Competitive Programming Club, while organizing and promoting events that encourage collaboration and engagement among members. Actively developing strategies to expand the club's presence and impact.

Technical Association for Computer Engineers (TEKACE-SRIT), Coimbatore
July 2024 - Present

Executive Committee Member

- Contributing to event planning and coordination while enhancing the organization's reach within the student community. Continuously applying event management and photography skills to capture moments and drive successful programs.

Alan Stills, Coimbatore
8 years 11 months

Co-Founder
February 2016 - Present

- As the Co-Founder of Alan Stills, a bespoke photography service company, I lead a dedicated team of creative professionals. We specialize in delivering high-quality photography services for weddings, corporate events, portraits, and commercial projects. My role involves overseeing all aspects of the business, from creative direction to client relations, ensuring that every project is executed with precision and artistry. We pride ourselves on capturing the essence of life's most significant moments with a blend of care, creativity, and professionalism.

Lead Photographer
May 2022 - August 2023

- Worked as the Lead Photographer, overseeing and executing high-quality photography projects for weddings, corporate events, portraits, and commercial shoots. Focused on capturing unique moments with creativity and precision while collaborating with clients to meet their specific needs. Actively directed photo shoots, managed a team of photographers, and ensured every project was delivered with the highest standards of artistry and professionalism.

JS Aluminium Private Limited , Coimbatore
June 2023 - August 2023

Summer Intern

- During my internship at JS Aluminium Private Limited, I gained hands-on experience in various aspects of business operations. My responsibilities included managing accounts, utilizing Tally ERP for financial transactions, overseeing inventory management, and assisting in accounting and invoicing processes. This experience allowed me to develop a strong understanding of the financial and logistical aspects of the manufacturing industry, enhancing my skills in account management and operational efficiency.

EDUCATION

Sri Ramakrishna Institute of Technology
August 2023 - November 2027

Bachelor of Engineering - BE, Computer Science

- Grade: 9.133 CGPA
- Activities & Societies: ASME SRIT Student's Section, Hub for Innovation and Entrepreneurship, The Competitive Programming Club - SRIT, Technical Association of Computer Engineers (TEKACE-SRIT), Anti-Drug Cell (ADC-SRIT)
- I'm actively engaging in various student-driven organizations such as the ASME SRIT Student's Section, Competitive Programming Club, and the Hub for Innovation and Entrepreneurship, while holding leadership roles like Media Relations & Outreach Specialist and Executive Committee member at TEKACE. Also, I'm continuously developing my strong technical skills in Python, Java, C, and C++ and contributing to projects that blend innovation with practical problem-solving.

Jayam Foundation Matriculation Higher Secondary School
June 2021 - May 2023

- Activities & Societies: Band Troop - Founder Leader and Drummer
- Completed higher secondary education while excelling academically, creatively, and musically. As the drummer and troop leader of the school band troop, I founded and led the first-ever band troop in the school's history, leaving a lasting legacy. Also honed design skills through experience with Adobe Photoshop.

Bishop Francis Matriculation School
June 2016 - March 2021

- Activities & Societies: Band Troop - Drummer, School Choir - Lead Keyboardist
- Focused on holistic learning while nurturing musical talents as a drummer in the school band troop and a keyboardist in the school choir. Also gained foundational skills in programming, web hosting, and design using tools like Adobe Photoshop.

St. John Bosco Matriculation Higher Secondary School
June 2015 - March 2016

Brindisi Matriculation School
June 2009 - March 2015

LANGUAGES

English, **Tamil**

CERTIFICATIONS

Computer Operating Systems
October 2017 - Present

Bharathiar University

Credential ID: 1602B1431/027/A038442

Programming Fundamentals
October 2018 - Present

Bharathiar University

Credential ID: 1703C0196/B06/A006080

Advanced HTML & Web Hosting Techniques
April 2019 - Present

Cultiv8 (CIET - TBI)

Credential ID: 18AWD0001

Python for Data Science
April 2024 - Present

NPTEL

Credential ID: NPTEL24CS54S65350460130036142

Show Credential

Design Thinking - A Primer
September 2024 - Present

NPTEL

Credential ID: NPTEL24MG72S43340113402634453

Show Credential

Crash Course on Python

October 2024 - Present

Google

Show Credential

Introduction to Generative AI

October 2024 - Present

Google

Credential ID: 12040904
Show Credential

Introduction to Image Generation

October 2024 - Present

Google

Credential ID: 12053467
Show Credential

Introduction to Responsible AI

October 2024 - Present

Google

Credential ID: 12053790
Show Credential

Introduction to Large Language Models

October 2024 - Present

Google

Credential ID: 12181831
Show Credential

PROJECTS

Facial Emotion Recognition using VGG16 & VGG19

October 2024

- This project focuses on developing a real-time facial emotion recognition system using deep learning, specifically the VGG16 architecture. The system is designed to detect and classify human emotions based on facial expressions, with applications in healthcare, human-computer interaction, and emotion-aware AI.
- Facial expressions convey emotions like happiness, sadness, anger, and surprise. The project aims to build a robust model that analyzes facial features to classify these emotions. By leveraging transfer learning with VGG16, the system achieves high accuracy using a smaller dataset and shorter training times. VGG16, pre-trained on ImageNet, was chosen for its ability to extract detailed image features. We applied transfer learning by freezing the early layers to retain general features and fine-tuning the final layers for emotion recognition.
- Input images were resized to 224x224 pixels, and data augmentation techniques like rotation, flipping, and zooming were applied to prevent overfitting. The Adam optimizer and early stopping were used for efficient learning and to halt training when validation performance stopped improving. Performance was evaluated using accuracy metrics and a confusion matrix to assess classification success.
- Potential applications of this system include emotion-aware virtual assistants that adapt to users' emotional states for more personalized experiences. In healthcare, it could monitor the emotional well-being of patients unable to express themselves verbally. In customer service, AI systems with emotional intelligence could improve user interactions.
- Future work could explore advanced models like EfficientNet and attention mechanisms to better focus on key facial features. Integrating additional data sources such as voice and text sentiment analysis could enhance the system's understanding of emotions. This project highlights the potential of deep learning to create emotionally intuitive AI systems.

Conversational Image Recognition Chatbot

September 2024

- This project focuses on the development of a Conversational Image Recognition Chatbot that integrates Natural Language Processing (NLP) with image recognition to facilitate real-time, interactive conversations based on visual inputs. Currently, the chatbot is in the development phase and utilizes the VGG-16 deep learning model for object recognition, allowing it to accurately identify objects within images uploaded by users.
- Once the image features are extracted, the chatbot processes user queries through an NLP module to generate contextually relevant responses. A Late Fusion Encoder is employed to integrate image data with conversational history, ensuring that responses reflect both the visual content of the image and the ongoing dialogue.
- In future upgrades, we plan to implement a Long Short-Term Memory (LSTM) model alongside large language models (LLMs) to enhance the conversational capabilities of the chatbot, enabling it to better understand and respond to more complex queries and maintain context over longer interactions.
- This system has been designed with scalability and efficiency in mind, using cloud infrastructure to handle real-time image

processing and user interactions. The chatbot is applicable in several fields, including e-commerce, where it can assist in product identification and recommendations; healthcare, for preliminary medical image analysis; and security, for object detection in surveillance footage.

- By automating the interpretation of image-based queries, this chatbot reduces manual effort, enhances user experience, and provides a scalable, cost-effective solution for industries that rely on image recognition.

SmartPunch: Smart Attendance Management System using RFID's

July 2024

- This project revolutionizes attendance management using RFID technology and IoT. Students tap RFID cards at reader modules, data is securely transmitted to a cloud database, and students access attendance records via a mobile app. This system offers enhanced accuracy, efficiency, transparency, and scalability. It benefits students, faculty, and institutions by reducing administrative burden, improving data accuracy, promoting accountability, and enabling real-time data access. Future scope includes integration with LMS, advanced analytics, and automated notifications. This project has the potential to significantly improve attendance management practices in educational institutions.

VOLUNTEERING

Sri Ramakrishna Institute of Technology

August 2024 - August 2024

Education

Event Organizer