

ASWIN S

Coimbatore, Tamilnadu

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EDUCATION

Amrita Vishwa Vidyapeetham, Coimbatore

2021 – 2025

B.Tech - Electrical and Electronics Engineering - CGPA - 7.24

Coimbatore, Tamilnadu

RKV Matriculation Higher Secondary School

2020 – 2021

Bio-math - 91.88%

Namakkal, Tamilnadu

RKV Matriculation Higher Secondary School

2019 – 2020

General - 90.4%

Namakkal, Tamilnadu

COURSEWORK / SKILLS

- Software Development
- IOT Automation
- DSA

INTERNSHIPS

Intern at Indian Institute of Technology, Tirupati 

Feb 2024 - Aug 2024

Role - Software Developer

Tirupati, Andhra pradesh

- Architected a Smart Parking Application that combines pre-booking capabilities with AI-driven slot management; the application has reduced operational disruptions, achieving a 30% decrease in manual oversight for parking staff.

SALIEABS Solutions LLP 

June 2024 - July 2024

Role - IoT Web Developer

Salem, Tamil Nadu

- Contributing to a project titled **Stove Automation** that involved IoT components like **ESP32, Solenoid Valve, Relay, and Thermocouple**.
- Developed a web-based dashboard using HTML and CSS, enabling data input and communication with the ESP32 for temperature control in a defined range loop

PROJECTS

Python Pallanguzhi | Python, OOPS, DSA, Framework- Pygame

2023 - 24

- Developed an interactive Python-based game “Pallanguzhi,” featuring single-player and two-player modes with enhanced logic for an engaging user experience.
- Implemented modular and reusable game logic using Object-Oriented Programming (OOP), preserving the cultural essence of this traditional South Indian game.

Smart Water Monitoring System | ESP32, Raspberry Pi, Flutter, Dart, IDE - VS Code

2023

- Engineered a prepaid IoT-based Smart Water Monitoring System with a user-friendly mobile app for real-time control and monitoring.
- Integrated machine learning (Random Forest) for accurate water usage prediction, with the project currently under the patenting process.

Self-Stabilizing Platform | Arduino Nano, MPU6050 gyroscope, and MG996R servo motors

2022-2023

- Designed and developed a self-stabilizing platform with three-axis stabilization (roll, pitch, yaw) for robotics and camera applications.
- Optimized system performance by implementing precise control algorithms and conducting thorough hardware testing for stability.

TECHNICAL SKILLS

Languages: Python, C, Dart, SQL, Java, JavaScript

Technologies/Frameworks: HTML5, CSS3, Flutter

Developer Tools: GitHub, Figma, VS Code, PyCharm, Android Studio, Canva

ACHIEVEMENTS

- **Idea Presentation Award 2024** for an interactive mobile game at Amrita University, Coimbatore
- **Winner of Abisarga Hackathon 2024** with a cash prize of 25,000 in IIIT, Sricity
- **Runner of Impathon Hackathon 2023** with a cash prize of 15,000 at Sona College of Technology, Salem.

CONFERENCE

VIT-AP 2024 4th International Conference

2024

Presenter

Amravati, Andhra pradesh

- Presented on the topic "Development and Implementation of a Smart Parking System in Coimbatore, Tamil Nadu: Enhancing Urban Mobility and Efficiency" [!\[\]\(c6a8736a601a632e2c96605cf66055ed_img.jpg\)](#)

EXTRACURRICULAR

- SPOC team member of GDSC [!\[\]\(e27c4336460e9e6729a19580c0456728_img.jpg\)](#)
- Social activity at Amrita hospital, Faridabad [!\[\]\(1a140e8db538fd46d58af9f9540232fd_img.jpg\)](#)
- Contributor of Amrita Darpan newsletter [!\[\]\(5a658b86f2c8900a276c586c1f8f9f2f_img.jpg\)](#)
- NSS Member from 2022 to 2023 - Helped in restoration process of government School, KG Chavadi
- Secretary of Sadhana Club – Conducted workshops, Trips