

# ASWIN SANTHOSH KUMAR

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## PROFESSIONAL SUMMARY

Electronics and Communication Engineering graduate with strong expertise in Java Full Stack Development. Skilled in Java, Spring Boot, React, JavaScript, HTML, CSS, MySQL, and REST APIs, with experience building responsive and scalable web applications. Focused on clean coding, problem-solving, and delivering efficient end-to-end solutions.

## EDUCATION

### Bachelor of Technology- Electronics & Communication Engineering

2025

Mangalam College of Engineering, Ettumanoor, Kottayam

### Higher Secondary Education - Computer Science

2021

SNV HSS,NR City, Idukki

CGPA-9.5

### SSLC

2019

St George High School, Parathode

CGPA-9.3

## INTERNSHIPS & CERTIFICATIONS

### INTERNSHIPS

#### INTRODUCTION TO EMBEDDED SYSTEMS, COMPONENTS, MICROCONTROLLER

27 Dec 2022-02 Jan 2023

#### ARCHITECTURE, INTRODUCTION TO 8051 PROGRAMMING | KELTRON PVT LTD,KOCHI

- Learned the basics of embedded systems and microcontroller architecture.

- Worked with microcontroller features and programming basics.

#### INTRODUCTION TO MACHINE LEARNING | SINRO ROBOTICS,KOCHI

18 Dec 2024-30 Dec 2024

- Learned python basics for data handling..

- Executed simple ML programs and interpreted model outputs.

### CERTIFICATIONS

#### JAVA FULL STACK DEVELOPMENT

02 June - Currently Pursuing

#### KOMPETENZEN TECHNOLOGIES- Vytila, Kochi

- Built interactive and responsive UI components using HTML, CSS, JavaScript, and React.
- Practiced front-end development concepts including state management, routing, and reusable components.
- Implemented simple CRUD operations and connected UI with backend APIs for dynamic data display.

#### PYTHON FOR BEGINNERS LEARN ALL THE BASICS OF PYTHON

#### UDEMY-Online learning platform

2024

- Learned the fundamentals of Python programming, syntax, and core concepts.
- Practiced writing basic Python programs using variables, data types, loops, and conditional statements.
- Developed simple programs to improve logic building and problem-solving skills in Python.

## AREAS OF EXPERTISE

### TECHNICAL SKILLS:

**Programming:** Java, JavaScript, Python

**Web Technologies:** HTML5, CSS, Bootstrap, React, REST APIs, JSON

**Frameworks:** & Tools: Spring Boot, Git/GitHub, VS Code, Jupiter, MySQL Workbench

**Databases:** MySQL

**Concepts:** OOPS, Web Architecture, CRUD Operations, API Integration, State Management, Routing

**Other:** Embedded Systems(8051),IoT Basics, OpenCV, MediaPipe, Dlib

### SOFT SKILLS

- Active Listening
- Team Collaboration
- Time management & Prioritization
- Ability to Changing Environments
- Critical Thinking
- Continuous Learning Mindset

## PROJECT EXPERIENCE

### WEBSITE PROJECT

#### Expense Tracker App for Family

October 2025

**Tech Stack:** React, CSS, Bootstrap, CRUD Operations

- Developed UI for adding, updating and deleting expense entries based on category and time.
- Used CRUD Operations to add/delete/update the data in the tracker app.
- Led a team of 4 to complete development within deadline

### MAIN PROJECT

#### Smart Solutions for Modern Classrooms, Leveraging AI and IoT for Equitable attendance

June 2024-May 2025

#### monitoring and Improved Teaching

**Tech Stack:** Python, OpenCV, MediaPipe, Dlib, IoT Modules

- Developed a real time face recognition attendance system.
- Implemented Eye Aspect Ratio(EAR)-based drowsiness detection System.
- Integrated attendance + alertness data to cloud dashboard using ubidots.
- Led a team of 4 and coordinated system implementation.

### MINI PROJECT

#### IoT sensor based third eye: A sensory navigation aid for the visually impaired

Dec 2023- May 2024

**Tech Stack:**ESP8266,Ultrasonic Sensor,Neo-6M GPS,

- Developed a navigation aid for blind users using IoT sensors.
- Added GPS-based Tracking for real-time location monitoring.