

SAM BENJAMIN R

📍 Chennai

✉️ sambenjoshua@gmail.com

☎️ +91 90030 13661

🌐 samben24

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SUMMARY

ECE graduate with strong programming skills in Java, SQL, JavaScript, and software development fundamentals, along with a solid foundation in DSA, OOP, and DBMS. Developed a LiDAR-based predictive road surface anomaly detection and automatic braking system as a final-year project, integrating real-time sensing and intelligent decision-making. Driven to leverage technical expertise and problem-solving abilities to build scalable, high-impact software solutions.

SKILLS

Programming: Java (OOP, DSA), SQL, JavaScript

Web Technologies: HTML, CSS

Core Concepts: DSA, OOP, DBMS, Problem Solving

Tools & Technologies: Git, GitHub, Raspberry Pi 3B+, TF-Luna LiDAR, YOLO, Sybil

Familiar With: REST APIs, API Integration, Software Testing,

Soft Skills: Time Management, Ownership & Accountability, Adaptability, Willingness to Learn

Languages: English, Tamil

EDUCATION

BE Panimalar Engineering College, Electronics and Communication Engineering

- CGPA: 8.0

- Relevant Coursework: Machine Learning, Embedded Systems

Poonamallee, Chennai

Oct 2022 – Apr 2026

HSS Everwin Mat. Hr. Sec. School, Higher Secondary

- Demonstrated consistent academic performance during higher secondary education

Kolathur, Chennai

June 2021 – May 2022

EXPERIENCE

Retech Solution Pvt. Ltd., UI/UX Intern

- Developed wireframes and user flows for a fitness app, improving UX through testing.
- Evaluated user interactions through usability testing to identify design improvements.
- **Technologies Used**- Figma.

Tambaram, Chennai

2-Week Internship

June 2024

PROJECTS

Sybil Integrated YOLO Model for Deep Learning Based Lung Cancer Prediction

- Developed a deep learning model integrating YOLO and Sybil for lung cancer detection.
- Optimized prediction accuracy via image-based analysis feature and extraction techniques.
- Planned an efficient and scalable data CI/CD pipeline for model training and evaluation.
- **Technologies Used** - Python, YOLO, Sybil, Deep Learning, Image Processing.

LiDAR Based Predictive Road Surface Anomaly Detection and Automatic Braking System

- Designed and implemented a real-time anomaly detection system using LiDAR sensor data.
- Integrated an automatic braking mechanism to prevent collisions and enhance the safety.
- Interfaced Raspberry Pi with motor driver for real-time control and response of the vehicle.
- **Technologies Used** - Raspberry Pi 3B+, TF-Luna LiDAR, L298N, Python, Embedded Systems

CERTIFICATIONS

- **QSpiders Institute** – 100-Day Software Developer Training Program conducted at Panimalar Engineering College
- Infosys Springboard - Java Developer
- Infosys Springboard - Internet of Things Foundation
- Oracle - Oracle Cloud Infrastructure 2025

PUBLICATIONS

LiDAR Based Predictive Road Surface Anomaly Detection and Automatic Braking System

Sam Benjamin R (Submitted for publication — under review)

Mar 2026

HOBBIES

- Reading Books
- Listening to Music