DAVID SHIBU

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B.Tech, Computer Science and Engineering

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AMRITA
VISHWA VIDYAPEETHAM

Summary

Dual-degree student pursuing a B.Tech in Computer Science at Amrita Vishwa Vidyapeetham and a B.Sc in Data Science from IIT Madras. Driven by an innovative mindset to engineer creative, "outside-the-box" solutions using emerging technologies. Recognized as a collaborative leader with strong problem-solving skills and the adaptability to excel in fast paced, high-pressure environments.Portfolio Website

Education

ASE, Amritapuri	2027
B.Tech · Computer Science and Engineering	CGPA - 9.34/10
Indian Institute of Technology Madras	May 2023 - Present
B.Sc · Data Science and Programming · Madras	
Vimala Central School	2022
Class XII - CBSE · bimpc · Thanissery	Percentage - 91%
Vimala Central School	2020
Class X - CBSE · bimpc · Thanissery	Percentage - 97%

Projects

Developed virtual Science lab to be integrated with Olabs online lab platform (Lead)(2nd runner up National Hackathon) | GitHub — Feb 2025 - Mar 2025

OLABS Hackathon · HTML, CSS, JavaScript — Web

Engineered an affordable VR/AR lab using HTML, CSS, and JS. Pioneered "fusion reality" to provide immersive, low-cost education for a national audience.

Smart City Using IoT devices (Lead) | GitHub — Nov 2024 - Nov 2024

C project · Arduino, ESP-32 — IoT

Developed a smart ecosystem featuring self-driving cars and traffic systems. Integrated Arduino and ESP32 for real-time navigation and ambulance tracking.

Health tracker Application using Java and java FX (Lead) | GitHub — May 2023 - Jun 2023

OOPS understanding · Java, Java FX — OOPS

Built a Java/JavaFX application to analyze daily health reports. Programmed data visualization modules to deliver actionable wellness suggestions and UI styling.

Developed cheap hearing aid for deaf people. (Lead) — Nov 2023 - Nov 2023

· Electronics — Electronics

Innovated a budget-friendly hearing solution using mono-audio boards and DC motors, prototyping accessible hardware for the hearing-impaired.

Comprehensive Management Software for Kochi Water Metro (Lead) | GitHub — Nov 2025 - Nov 2025

Software Engineering Project · Python, HTML, Jinja Templating — Web

Developed and deployed a Flask-based web application for Kochi Water Metro, enabling unified access for passengers, employees, and administrators.

Awards

2nd Runner Up National Level Hackathon | LinkedIn Post — Mar 2025

OLABS Hackathon · Amrita CREATE

2nd Position in Inter-Amrita Elocution Competition Oct 2025
Kalotsav · Amrita University

Certifications

Foundation in Data Science and Programming | Certificate Sept 2024
IIT Madras

Introduction to Cloud Computing | Certificate Oct 2025
Infosys

Publications

An Open and Reproducible Multimodal AI Framework for Skin Disease Dec 2025
Diagnosis Using Public Vision and Biomedical Language Models
Elsevier Procedia Journal

Designed and implemented the MAGE-V-Pro multimodal diagnostic framework integrating DINOv2 visual encoders and PubMedBERT clinical text embeddings. · Implemented a FiLM-based cross-modal fusion mechanism achieving 95.71% diagnostic accuracy.

Volunteering

SSR Project | LinkedIn Post Sept 2025 - Sept 2025
Team Lead and volunteer · Community Service

Contributed to public safety and healthcare support through a Student Social Responsibility project, working as a traffic warden and assisting palliative care teams.

Competitions

ICSRF National Hackathon Oct 2025
Finalist · Sustainable development

ICPC Nov 2024
Participation

ICPC Nov 2025
Participation

SIH Internal Hackathon Sept 2025
Winner

Extra Curricular Activities

E-Commerce Aug 2023 - Dec 2023
Assisted in marketing and maintenance of an E-commerce startup.

Public speaking & Anchoring Jan 2025 - Jan 2026
Served as the Master of Ceremonies for campus-wide events

Skills

Programming Languages: Python, C++, Java
Areas of Interest: Public Speaking, Giving Presentations
Technical Skills: Problem Solving

Languages

English [Professional Working Proficiency], Malayalam [Native Proficiency], Hindi [Elementary Proficiency]

Links

LinkedIn, GitHub, LeetCode, Codeforces