ABHIDEV S P

Computer Science &
Engineering Student

📞 +91 7907023163
📍 Thiruvanthapuram, Kerala
✉ abhidevsp2003@gmail.com
Linkedin linkedin.com/in/abhidevsp/
⊙ github.com/abhidev2003

ABOUT ME

I am a Bachelor of Technology student specializing in Computer Science & Engineering with a keen interest in software development and robotics. I possess a strong foundation in programming languages such as C, C++, Python, and Java, along with frameworks like React.js and Node.js. My hands-on experience with projects like autonomous drones and AI-powered applications showcases my capabilities in developing innovative solutions and my dedication to enhancing my technical skills

EDUCATION

LOURDES MATHA COLLEGE OF SCIENCE & TECH	**CHINMAYA VIDYALAYA VELLAPALLY NARUVAMOODU**	**CHINMAYA VIDYALAYA VELLAPALLY NARUVAMOODU**
Bachelor of Technology (B.Tech)	Senior Secondary (Class XII)	Secondary (Class X)
2022 - Present	2022	2020

EXPERIENCE

2025-NOW — **SKYPAL PROJECT | ROS 2, GAZEBO, PYTHON, RASPBERRY PI | ONGOING**

- Configured PX4 + ROS 2 + Gazebo simulation environment to test autonomous flight, navigation, and mission planning.
- Designed modular drone framework with support for removable battery systems and autonomous return-to-base charging.
- Prototyping QR-code–based payload authentication for sender/receiver verification in delivery workflow.
- Implementing real-time obstacle avoidance and dynamic flight planning in a simulated environment.

2025 — **OTTERLY – AI-POWERED JOURNALING APP**

- Built a web-based journaling platform guided by an empathetic AI companion, 'Oto the Otter.
- Integrated OpenAI GPT-3 for personalized prompts and responses; implemented server-side rendering and secure API routes
- Deployed frontend on Vercel; ensured privacy and secure storage of journal entries

2025 — **AI-POWERED NUTRITIONAL INSIGHT APP**

- Developed a mobile app to scan food barcodes and provide instant nutritional insights
- Implemented Firebase Authentication and Firestore for secure user login and scan history management.
- Integrated Open Food Facts API and AI-powered chat assistant (Gemini API) for personalized dietary recommendations.

CERTIFICATIONS

- C / C++ – GTech | Grade: B+
- Java – GTech | Grade: A
- AI – Infosys Foundation Finishing School of Employability | Grade: B
- Java Test – Spoken Tutorial, IIT Bombay | Score: 87.5%
- Linux Test Training – Spoken Tutorial, IIT Bombay | Score: 80%
- C Test – Spoken Tutorial, IIT Bombay | Score: 87.5%

SKILLS

Programming Languages: C, C++, Python, Java

Web Development: HTML5, CSS3, JavaScript, React.js, Node.js

Databases: MySQL, PostgreSQL, MongoDB, Firebase, Cloudflare Workers

Embedded & Robotics: Embedded C, ESP32, Arduino, ROS 2, Gazebo, Real-Time Systems, Hardware-Software Integration

Tools & Platforms: Git, GitHub, VS Code, Linux (Ubuntu), Postman

Core CS Subjects: Data Structures & Algorithms (DSA), Object-Oriented Programming (OOP), DBMS, Operating Systems, Computer Networks

LANGUAGES

English (Fluent)

Malayalam (Native)

Hindi(Intermediate)