

Adithya Prabhakar

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SUMMARY

Computer Science Engineering student with strong foundations in **MERN stack development**, **data structures and algorithms**, and **backend development**. Hands-on experience building **scalable web applications** and **real-time IoT systems** that integrate **software** and **hardware** for practical problem-solving. Published research applying **embedded systems**, **full-stack development**, and **machine learning** to real-world challenges.

EDUCATION

2022 - present	BE(Computer Science), DSATM	(CGPA: 8.83/10.0)
2020 - 2022	PUC, NCERT, Christ Junior College	(Percent: 85.5)
2020	Class 10th, ICSE, Christ School ICSE	(Percent: 88.6)

SKILLS

- **Programming Languages:** Java, Python, JavaScript
- **Web Development:** Node.js, Express.js, React, Next.js, RESTful API development
- **Cloud & DevOps:** AWS , CI/CD pipelines, Git, GitHub, Firebase Cloud
- **Databases:** MongoDB, MySQL, Firebase Realtime DB
- **Core CS Concepts:** Data Structures & Algorithms, Object-Oriented Programming, Microservices fundamentals, System Design basics, AI/ML
- **Tools & Platforms:** VS Code, Arduino, Postman, Figma, WordPress
- **Additional Expertise:** Cloud deployment, IoT systems, real-time data processing, API integration, Lang chain, RAG

INTERNSHIPS

Software Developer Intern, Teamlease Services Ltd. Jul 2025 – Oct 2025

- Completed hands-on training in **full-stack web development** using **JavaScript, React, MongoDB and Node.js**.
- Developed a **Payroll Management System** using the **MERN stack**, enabling administrators to manage employee payslips and resolve disputes efficiently, while allowing employees secure **self-service access** to salary records and documents.
- Applied **version control (Git, GitHub)** and implemented **CI/CD pipelines** to streamline development and deployment workflows.

WordPress Developer Intern, Dopetech Solutions Apr 2025 – Jun 2025

- Built and deployed a **custom WordPress CMS** for a construction services client.
- Implemented **theme customization, plugin development, and SEO optimization**.
- Performed **testing, debugging**, and ensured cross-browser compatibility.

PROJECTS

Advanced AQI Monitoring System

- Built an **IoT-based AQI monitoring system** using **ESP32, Firebase, Node.js, Express, and React**.
- Collected and visualized **real-time air quality data** from DHT22, MQ7, MQ135, and PM2.5 sensors.
- Implemented **AI-powered analytics** for daily and monthly pollution trend reports.
- Enabled **cloud data storage and visualization** through a Firebase dashboard.
- Have applied for **Patent**.
- Published project findings in the **IJSREM Journal**.

LoRa The Saviour

- Developed a **low-cost emergency communication system** using **ESP32, LoRa, Bluetooth, and WiFi**.
- Built firmware for two ESP32 modules enabling **offline text messaging** between smartphones.
- Designed for **trekking and disaster zones** where cellular networks are unavailable.
- Created a **companion Android app** for seamless device pairing and messaging.
- Published research in the **IJRPR Journal**, demonstrating expertise in IoT and wireless communication.

VAYOO — Portable Windmill System

- Designed a **modular, 3D-printed windmill** optimized for **remote locations**.
- Integrated **battery storage** and an **analytics dashboard** for weekly power insights.
- Synced performance data to **Firebase Cloud** for real-time monitoring.

CERTIFICATIONS

- Machine Learning, Infosys SpringBoard
- Cloud Computing with AWS, Infosys SpringBoard
- Data Structures using C, Udemy
- Web Development, Apna College
- Tableau and Power BI, Certisured

PUBLICATIONS

- “LoRa : The Saviour” (Dec. 2024). In: *International Journal of Research Publication and Reviews* 5.12, pp. 4684–4688.
- “Air Quality Monitor” (May 2025). In: *International Journal of Scientific Research in Engineering and Management* 9.5, pp. 2582–3930.