

ADITHYA MONISH KUMAR K

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SUMMARY

Full-stack and AI enthusiast with experience in building scalable web and mobile applications and integrating AI models to them.

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, HTML, CSS, C/C++, Java, Python, Dart, SQL

Frameworks & Tools: React, Node.js, Flutter, TensorFlow, PyTorch, Hugging Face, Git, Docker, Vite

Cloud & Databases: AWS, MongoDB, MySQL, Supabase

Concepts: OOP, DSA, DAA, ML, DBMS, UI/UX Design, Foundations of Cybersecurity

EXPERIENCE

Amrita Automotive Research and Technology Centre (AARTC)

Oct 2025 – Present

Coimbatore, India

Research Intern

- Conducted research as part of the perception team on a BEV-based autonomous driving system.
- Worked on BEV and model training, including dataset preparation and training pipeline refinement.

Sony SSUP

Jan 2025 – Sep 2025

Coimbatore, India

Product Intern

- Developed AgroESP Mobile App offering real-time and historical data monitoring of the Polyhouse.
- Integrated SSE for real-time sensor data, image updates, and chart rendering.
- Developed query and graph pages; implemented responsive UI and live updates for data/image feeds.
- Deployed application to Google Play Store (Testing phase).

PROJECTS

LifeLeveler

2025

React, TypeScript, Vite, Tailwind CSS, Supabase, Node.js

- A gamified life management app transforming daily tasks into an RPG adventure.

Secure-Digital-Key-Asset-Checkout-System

2025

TypeScript, React, Node.js, Security

- Developed a full-stack web application for securely managing physical and digital asset checkout with enterprise-grade security features.

Learn-and-Exchange-Platform

2025

TypeScript, React, Node.js, Real-time Updates

- An end-to-end web application for learning, bartering skills, and collaborating through tasks, offers, chat, reviews, and support tickets.
- Built with a modern TypeScript stack and implemented real-time updates for seamless user interaction.

Persona-Driven-Document-Intelligence-Engine

2025

Python, SentenceTransformers, LightGBM

- Built a semantic matching engine that ranks PDF sections for specific user personas using fine-tuned SentenceTransformer and cosine similarity scoring.
- Designed a multi-stage relevance scoring framework combining title similarity, content embeddings, and subsection summarization.

CERTIFICATIONS

AWS Academy Graduate - AWS Academy Cloud Foundations Certification

Google Cybersecurity Specialization Certificate - Including 8 other Course Certifications that need to be done for it.

Google AI Essentials Certification

EDUCATION

Bachelor of Technology in Computer Science and Engineering

Aug 2023 – July 2027

Amrita Vishwa Vidyapeetham, Coimbatore

- CGPA: 7.59 (3rd Year)