

ANAND BALAJI S N

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Summary — Passionate developer with hands-on experience in cloud-native AI/ML systems and distributed architectures. Skilled in Java, Python, and cloud services (AWS, Azure, GCP). Experienced in building predictive ML systems, containerized deployments, and DevOps automation. Driven by innovation, scalability, and reliability in AI platforms.

Education

SRM Institute of Science and Technology

B.Tech. Computer Science with Specialization in Information Technology
CGPA – 8.5

Chennai

2022–2026

Skills

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

Cloud Platforms: AWS, Azure, GCP.

AI/ML: TensorFlow, PyTorch, U-Net, XGBoost, LangChain, RAG systems , Generative AI, Prompt Engineering.

DevOps Tools: Docker, Kubernetes, Jenkins, Terraform, CI/CD, Git/GitHub

Web Development: React, Tailwind, Firebase, Node.js .

Databases: SQL, MongoDB .

Experience

VALEO: Software development Intern

May–June 2024

- Worked on an ADAS glare mitigation system using U-Net-based semantic segmentation to improve image clarity and object detection under harsh lighting conditions.
- Performed end to end testing of the ADAS glare mitigation system, identifying performance issues, validating outputs, and reduced image error rates by 20% through optimized model validation.

AICTE: AWS Cloud Virtual Internship

Jan–Mar 2025

- Gained hands-on experience with AWS (EC2, S3, Lambda) and DevOps tools for scalable cloud solutions and automation.

The Consultant, NWC Association

Nov 2024-Present

- Led a team of 30 members in organizing 7 major technical events with 500+ participants.
- Implemented digital documentation systems reducing administrative time by 40%.

Projects

Optimized Predictive Modeling for YouTube Trends Using Machine Learning

- Presented a research paper on a machine learning-based YouTube trend prediction system at the International Conference on Internet of Things (ICIOT) 2025, organized by SRM Institute of Science and Technology, Kattankulathur.

TripMate AI

Full-Stack Mobile App

- Developed a React Native mobile app for AI-powered trip planning with personalized itineraries, real-time tracking, and destination recommendations.
- Designed a retrieval-augmented chatbot using LangChain and Gemini API, enabling contextual and generative trip planning recommendations.

MedTechPro

Machine Learning

- Developed a predictive maintenance platform for healthcare equipment such as MRI and CT machines using cloud technologies including AWS S3, Kinesis, and Azure XGBoost.
- Built scalable microservices for predictive maintenance with cloud-based data ingestion and ML pipelines using AWS and Azure.

Achievements and Certifications

- Runner-Up, National Level Blockchain Idea Fest (Jan 2025)
- Second Runner-Up, Mastering Cloud Services Project Expo– (May 2025)
- Oracle Certified Foundations Associate
- Oracle Cloud Infrastructure 2024 Data Certified Foundations Associate
- Google Data Analytics Certification
- AWS Cloud Foundations, Machine Learning Foundations, Data Engineer, Cloud Architecting