

# Emmanuel Allan M J

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## EDUCATION

### VIT CHENNAI

BTECH COMPUTER ENGINEERING  
2025 | CGPA: 9.23

### ALWIN MEMORIAL PUBLIC SCHOOL

12TH CBSE BOARD  
2021 | 95%

10TH CBSE BOARD  
2019 | 93.6%

## TECHNICAL SKILLS

### FRONT-END DEVELOPMENT

HTML5 • CSS3 • Tailwind CSS  
TypeScript • React • Next  
Astro • React Native

### BACK-END DEVELOPMENT

Node.js • Express.js • Flask  
Django • Go

### LANGUAGES

JavaScript • Python • C • C++  
Java • Go

### DATABASE MANAGEMENT

MySQL • MongoDB • PostgreSQL  
Redis

### VERSION CONTROL

Git • GitHub • GitLab

### UI/UX DESIGN

Prototyping • Responsive Design  
Figma

### DEPLOYMENT AND DEVOPS

AWS • Azure • Docker  
MicroServices • Kubernetes  
GitLab CI

### TOOLS

VSCode • Pandas • Numpy • Linux

## CERTIFICATES

AWS Certified Cloud Practitioner  
CLF-C02  
AWS Solution Architect Associate  
SAA-C03  
Machine Learning Specialisation  
(Stanford)  
Docker and Kubernetes using EKS and  
ECS

## WORK EXPERIENCE

### MINISTRY OF ELECTRONICS AND IT | FULL STACK DEVELOPER

Oct 2023 - Present

- Architected a scalable Next.js front-end within a Turborepo **monorepo** structure, implementing a robust code execution platform, Jupyter Notebook and H5P integrations.
- Implemented critical infrastructure components, including **RBAC**, **package registry management**, and Docker **containerization**
- Contributed to **CI/CD pipeline** development and performance optimization
- Integrated **Llama 3 Mistral** model using Ollama

### STEAM TROOPS INNOVATION LAB | FULL-STACK DEVELOPER

Sept 2023 - Jan 2024

- **Led a team** of 5 developers in developing a **content management system** (CMS)
- Architected and implemented a responsive front-end application using Next.js
- Streamlined deployment using **Docker containers** and **AWS infrastructure**
- Optimized application for **SEO**, improving website visibility and organic traffic

### ISRO URSC BANGALORE | TRAINEE

Nov 2023 - Dec 2023

- Leveraged **concurrency** and **shared memory** techniques for telemetry software
- Developed **high-performance** data interfaces for **real-time** data capture and buffering

## PROJECTS

### TICKETING | Node Typescript Micro Service Docker K8s

**Microservice-based ticketing system** for event management, featuring scalable architecture for efficient ticket creation, distribution, and tracking.

### POSTIT | NEXT.JS TYPESCRIPT MYSQL REDIS AZURE

Social news aggregation and discussion website where users can post links, images, and videos, and upvote or downvote them.

### E-KYC VERIFIER (EVS) | OPENCV DEEPFACE FLASK NEXT.JS AZURE DOCKER

Identity verification system using face recognition and authentication processes for digital onboarding and verification workflows.

### BOOK ORDERING APP | Go POSTGRES DOCKER-COMPOSE NGINX AZURE VM SWAGGER

Online book browsing and ordering application with secure authentication and logging functionality.

## EXTRA CURRICULAR

- **Conducted workshops** on OpenCV, Redis and Next.js
- Selected as **Web Dev Lead** for Google Developer Student Club
- **Head of Website Development Team** for TechnoVIT'23 technical fest
- Microsoft Learn Student Ambassador (MLSA)

## HOBBIES/INTERESTS

Guitar • Cycling • Badminton