




# Emmanuel Allan M J


## Backend Developer

Full-stack developer with experience creating and managing complex internet apps. Expertise in the full software development lifecycle, as well as front-end and back-end technologies. Collaborative team player committed to producing high-quality solutions that are aligned with corporate goals. Dedicated to remaining current on industry developments and always improving technical abilities.

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## WORK EXPERIENCE

### Frontend Developer

Ministry of Electronics and IT | Oct 2023 - Present

- Devised and implemented best practices for building a **scalable and performance** front-end using Next.js, ensuring optimal user experience and application stability.
- Employed **test-driven development** (TDD) methodologies to write high-quality, maintainable code and prevent regressions.
- Responsible to devise robust solution for **code execution platform and form builder** architecture
- Maintained a **monorepo structure using Turborepo** to streamline code management, dependency handling, and cross-platform compatibility.

### Full-Stack Developer Intern

Steam Troops Innovation Lab | Sept 2023 - Present

- Led a team of 5** developers in the design and development of a **content management system** (CMS)
- Architected and implemented a responsive front-end application using Next.js, ensuring optimal user experience.
- Streamlined the deployment process by **utilizing Docker containers and AWS infrastructure**, ensuring seamless updates and maintenance.
- Collaborated with team members to optimize the application for **search engine optimization** (SEO) purposes, improving website visibility and organic traffic.
- Responsible for **delivering media and streaming videos** in optimised manner via CDNs, **handling payments and logistics** in the back-end.

### Trainee

ISRO URSC Bangalore | Nov 2023 - Dec 2023

- Leverage **concurrency** and **shared memory** techniques to build **high-performance** data interfaces for telemetry software.
- Efficiently capturing **real-time** data, buffering it effectively, and ensuring accurate **time synchronisation**, all to deliver reliable and actionable insights.

## PROJECTS

### PostIt | Next js Typescript MySQL Redis Azure

A **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 Nextjs Azure Docker Face Recognition

Unlock the power of secure and efficient identity verification. This enables seamless **face recognition and authentication** processes. Streamline your digital onboarding and identity verification workflows with cutting-edge technology.

### Blogger | Node Typescript Micro Service Docker K8s

Create, manage, and share your blog posts seamlessly with a microservice-based blogger app, offering enhanced **scalability**, and **independent functionality** for an exceptional blogging experience.

## 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, SQL Server, Redis
- Version Control:** Git, GitHub, GitLab
- UI/UX Design:** Wireframing, Prototyping, Responsive Design, Figma
- Deployment and DevOps:** AWS, Azure, Docker, MicroServices, Kubernetes. gRPC
- Tools :** VSCode, Unity, Pandas, Numpy

## EDUCATION

Vellore Institute of Technology Chennai

BTech Computer Engineering 2025, **CGPA:9.27**

Alwin Memorial Public School

12th CBSE Board 2021: 95%

10th CBSE Board 2019: 93.6%

## EXTRA CURRICULAR

- Organized and conducted **two successful events** on OpenCV and Next.js, both online and offline, attracting a diverse audience of students and professionals.
- Actively participated in hackathons, showcasing a passion for **innovation and problem-solving**. Collaborated with multidisciplinary teams to develop creative solutions within tight time constraints. Utilized technical skills and critical thinking to address complex challenges and present viable prototypes, earning recognition for outstanding teamwork and innovative ideas.
- I was selected as the **Web Dev Lead** Google Developer Student Club leader due to my skills and leadership skills.
- Selected as the **Head of the Website Development Team** for the technical fest TechnoVIT'23 in our college. I am responsible for **developing and maintaining** the website, which will include event registration and other features.

## HOBBIES/INTERESTS

Guitar, Cycling, Badminton

## CERTIFICATES

AWS - AWS Certified Cloud Practitioner CLF-C02

AWS - AWS Solution Architect Associate SAA-C03

Coursera - Machine Learning Specialisation (Stanford)

Udemy - Docker and Kubernetes using EKS and ECS

## ACHIEVEMENTS

- Microsoft Learn Student Ambassadors (MLSAs) are passionate **student leaders** who empower their peers and communities with the latest technology knowledge and skills. (Milestone Beta)