Emmanuel Allan M J

www.emmanuel-allan.com

Email: mjemmanuelallan@gmail.com
LinkedIn: linkedin.com/in/emmanuel-allan
GitHub: github.com/EmmanuelAllanMJ

EDUCATION

Vellore Institute of Technology Chennai — Chennai, India
BTech Computer Engineering; CGPA: 9.23 — *2021 – 2025*

Alwin Memorial Public School — Chennai, India
12th CBSE Board: 95% — 10th CBSE Board: 93.6% — *2007 – 2021*

EXPERIENCE

Ministry of Electronics and IT — Remote
Full Stack Developer — *Oct 2023 - Present*

- **Architecture**: Architected a scalable Next.js front-end within a Turborepo monorepo structure, implementing a robust code execution platform with Jupyter Notebook and H5P integrations.
- **Infrastructure**: Implemented critical components including RBAC, package registry management, and Docker containerization to enhance security and streamline deployment.
- **CI/CD**: Contributed to CI/CD pipeline development and performance optimization for maintainable applications
- **AI Integration**: Integrated Llama 3 Mistral model using Ollama for natural language processing capabilities.
- **Chatbot**: Designed and implemented a chatbot, leveraging AI technologies for interactions and support.

Steam Troops Innovation Lab — Chennai, India
Full-Stack Developer Intern — *Sept 2023 - Jan 2024*
Led a team of 5 developers in designing and developing a **content management system** (CMS). Architected and implemented a responsive front-end application using Next.js, ensuring **optimal user experience**. Streamlined the deployment process using **Docker containers** and **AWS infrastructure**.

ISRO URSC Bangalore — Bangalore, India
Trainee — *Nov 2023 - Dec 2023*
Leveraged **concurrency and shared memory** techniques to build high-performance data interfaces for telemetry software. Efficiently captured **real-time data**, implemented effective buffering, and ensured accurate time synchronization for reliable insights.

PROJECTS

- **Ticketing — Node Typescript Micro Service Docker K8s**: Created a microservice-based blogger app for enhanced scalability and independent functionality.
- **PostIt — Next.js Typescript MySQL Redis Azure**: Developed a social news aggregation and discussion website with posting and voting features.
- **e-KYC Verifier (EVS) — OpenCV DeepFace Flask Next.js Azure Docker**: Built a face recognition and authentication system for secure identity verification.

TECHNICAL SKILLS & CERTIFICATIONS

- **Front-End**: Tailwind, TypeScript, React, Next, React Native **Back-End**: Node, Express, Flask, Django, Go
- **Languages**: JavaScript, Python, C, C++, Java, Go **Databases**: MySQL, MongoDB, PostgreSQL, Redis
- **DevOps**: AWS, Azure, Docker, Kubernetes, GitLab CI **Tools**: Git, GitHub, GitLab, VSCode, Figma, Linux
- **AWS**: Certified Cloud Practitioner (CLF-C02), Solution Architect Associate (SAA-C03)
- **Coursera**: Machine Learning Specialisation (Stanford) **Udemy**: Docker and Kubernetes using EKS and ECS

LEADERSHIP & ACTIVITIES

- **Google Developer Student Club**: Selected as Web Dev Lead
- **TechnoVIT'23**: Head of Website Development Team
- **Microsoft Learn Student Ambassador**: Empowering peers with latest technology knowledge
- **Events**: Organized and conducted events on OpenCV, Next.js, and Redis