

EDUCATION

• Vellore Institute of Technology Chennai	Chennai, India
• <i>BTech Computer Engineering; CGPA: 9.23</i>	2021 – 2025
• Alwin Memorial Public School	Chennai, India
• <i>12th CBSE Board: 95% — 10th CBSE Board: 93.6%</i>	2007 – 2021

EXPERIENCE

• Ministry of Electronics and IT	Remote
• <i>Full Stack Developer</i>	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. Developed a LeetCode-style platform featuring public and private test cases.	
◦ Infrastructure: Implemented critical components including RBAC, package registry management, and Docker containerization to enhance security and streamline deployment. Managed private package registry and optimized build steps	
◦ CI/CD: Contributed to CI/CD pipeline development, including automated end-to-end testing and snapshot testing. Implemented Docker for deployment, versioning, and publishing of the project.	
◦ Performance: Conducted load testing using Locust to optimize performance and ensure efficient load distribution. Performed extensive testing on Judge0 for 3,000 concurrent users, ensuring system stability and responsiveness under high loads.	
◦ API Development: Developed and maintained 30 API endpoints using OpenAPI configuration, enhancing system functionality and integration with type-safety.	
◦ 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
• <i>Full-Stack Developer Intern</i>	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
• <i>Trainee</i>	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 ticketing application for enhanced **scalability** and **independent functionality**. Implemented event-driven architecture using **NATS streaming server** for inter-service communication. Utilized **Docker** for containerization and **Kubernetes** for orchestration.
- **PostIt — Next.js Typescript MySQL Redis Azure:** Developed a social news aggregation and discussion website with posting and voting features. Implemented **server-side rendering** with Next.js for improved performance and SEO. Utilized MySQL for persistent storage and Redis for caching to **enhance read performance**. Deployed on Azure.
- **e-KYC Verifier (EVS) — OpenCV DeepFace Flask Next.js Azure Docker:** Built a **face recognition** and **authentication system** for secure identity verification. Leveraged OpenCV and DeepFace for **facial recognition** algorithms. Developed a Flask backend API for processing and a Next.js frontend for user interaction. Implemented Docker for containerization and deployed on Azure for scalability and reliability. Ensured GDPR compliance for handling sensitive biometric data.

TECHNICAL SKILLS & CERTIFICATIONS

• Front-End: Tailwind, TypeScript, React, Next, React Native	Back-End: Node, Express, Flask, Django, Go
• DevOps: AWS, Azure, Docker, Kubernetes, GitLab CI	Tools: Git, GitLab, MongoDB, PostgreSQL, Redis
• 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. Led the team to win Best Technical Club award. Helped conduct DevHouse, VIT's flagship hackathon, with 70k cash prize, 10k unique registrations.
- **TechnoVIT'23:** Head of Website Development; Led team in creating website for technical fest, attracting over 10k visitors
- **Microsoft Learn Student Ambassador:** Empowered peers with latest technology knowledge, focusing on Azure, Microsoft technologies
- **Events:** Organized and conducted educational events on OpenCV, Next.js, and Redis to enhance peer learning