

# AKSHANSH SINGH

☎ +91-8120593669 ✉ akshanshsingh00@gmail.com in [Linkedin](#)

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## EDUCATION

- **Vellore Institute of Technology** Sept 2022 - Jun 2026  
Bachelor of Technology in Electrical and Electronics Engineering — CGPA: 9.0 Chennai, India
- **DAV Public School** 2021 - 2022  
Higher Secondary (Class XII) — Percentage: 95% Bishrampur, CG, India

## EXPERIENCE

- **Frontend Developer Intern** Sept 2025 - Nov 2025  
STAATEN Tech Remote
  - Developed 15+ responsive web pages using modern frontend technologies, ensuring cross-device compatibility and consistent UI/UX across STAATEN Tech's web applications.
  - Integrated RESTful backend APIs to connect frontend interfaces with server-side data, enabling dynamic content rendering and improving overall application functionality.
  - Collaborated in a remote agile environment to deliver production-ready features, contributing to iterative improvements in performance and user experience across the product.
- **Full-stack Developer** May 2025 - Jul 2025  
NexEV Chennai, India
  - Developed and optimized responsive pages for the NexEV website using React, improving navigation flow and page-load performance by 35%.
  - Built and secured authentication workflows in the React Native mobile app implementing email/password and Google OAuth via Supabase with 99.5% authentication success rate.
  - Collaborated closely with UI/UX designers and backend engineers using Agile methodologies, maintaining code quality standards and implementing automated testing practices.

## PROJECTS

- **Kubernetes GitOps Voting Application | Kubernetes, ArgoCD, Docker, AWS EC2, Kind** 🚀 Aug 2025
  - Deployed a microservices-based voting application on a multi-node **Kubernetes** cluster using Kind, featuring 3 nodes with automatic GitOps synchronization via **ArgoCD** for continuous deployment.
  - Implemented container orchestration with 5 microservices (Vote, Result, Worker, Redis, PostgreSQL) achieving **zero-downtime** deployments and horizontal scaling capabilities through Kubernetes manifests.
- **Time Capsule | Next.js, Spring Boot, Spring Data JPA, AWS S3, PostgreSQL** 🌐 **Live** 🚀 May 2026
  - Built a full-stack memory preservation platform with **JWT-based** stateless auth, role-based access control, and **AWS S3** for multimedia storage, serving scheduled capsule unlocks via Spring **@Scheduled** background jobs
  - Engineered **automated email notification pipeline** using Resend API, with PostgreSQL schema, Zod + Spring Validation for end-to-end input sanitization, and deployed across Vercel, Render, and Neon
- **Slotwise | Next.js, TypeScript, tRPC, PostgreSQL** 🌐 **Live** 🚀 Oct 2024
  - Developed a full-stack study scheduling app using the **T3 Stack** with end-to-end type safety, featuring subject management, calendar-based session scheduling, and session duration logging feeding into **progress analytics**.
  - Implemented a spaced-repetition **flashcard review system** with per-subject and mixed-mode review flows, recall scoring, and adaptive next-review scheduling, integrated with Clerk authentication for secure user session.

## TECHNICAL SKILLS

- **Programming & Frameworks:** Java, JavaScript, TypeScript, SQL, Spring Boot, React, Node.js, Next.js
- **CI/CD & Orchestration:** GitHub Actions, Jenkins, Docker, Kubernetes, Microservices Architecture, ArgoCD, Service Mesh, Helm Charts
- **Developer Tools and Databases:** Linux, Git, GitHub, MongoDB, PostgreSQL, Firebase, Supabase

## ACHIEVEMENTS AND CO-CURRICULAR ACTIVITIES

- **Winner, Google Gen AI Hackathon (Akasa Air track)**  
Led a cross-functional team to prototype and demo an AI solution under tight deadlines, demonstrating leadership and rapid problem-solving (30,000+ participants). Oct 2024
- **Member, IEEE CompSoc (Design and UI/UX)**  
Organized hands-on design workshops and mentored peers, demonstrating teamwork, stakeholder communication, and event coordination. May 2023 – May 2025