

Tanishka Solanki

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Technical Skills

Languages: C++, JavaScript, TypeScript

Frontend: React, Next.js | **Backend:** Node.js, Express, RESTful APIs,

Databases & Tools: MongoDB, MySQL, Docker, AWS, Terraform

Experience

Secure E- Solutions Private Limited – *Front-End Developer*
Noida

Oct. 2025 – Dec. 2025

- Developed and enhanced the company's main website by leveraging Next.js's Static Site Generation (SSG) & image optimization, improving page performance by 30% and delivering a smoother UI.
- Worked closely with the engineering team to facilitate the company's cloud migration to AWS, contributing to planning, execution, and post-migration validation.

Projects

Synapse – Real-Time Collaborative Code Editor

React, Node.js, MongoDB, REST APIs, JWT

- Built a real-time collaborative code editor using WebSockets, Yjs, and Monaco Editor, enabling seamless multi-user code editing with minimal latency.
- Implemented **secure room orchestration** with **JWT authentication** and **8-character access codes**, reliably supporting **20+ concurrent users per room** without state conflicts.
- Implemented CRDT-based synchronization (Yjs) for conflict-free updates, cursor awareness, and reliable document state management.

System Design Playground – Interactive System Design Tool

React, Vite, Custom Canvas Engine, State Management

- Built a **canvas editor** with drag-and-drop modeling, sustaining **60 FPS** across **30+ connected components**.
- Designed a **modular architecture component library** supporting **100+ configurable component nodes** for modeling system architectures.
- **Optimized canvas interactions and keyboard-driven workflows**, achieving **sub-50 ms UI response time** during node creation, deletion, and configuration.

CloudWatchX – AWS Cloud Monitoring Logging System

AWS EC2, CloudWatch, Logstash, OpenSearch Dashboards, Docker, Node.js, Terraform

- Built a Cloud Monitoring Logging System using AWS EC2, Docker, Logstash, and OpenSearch to collect and process real-time application logs.
- Configured CloudWatch and SNS alerts for automated anomaly notifications, improving observability and system reliability.

Certifications

- MongoDB Certified DBA Associate
- IBM Cyber Security Analyst

Education

Vellore Institute of Technology, Bhopal

B.Tech in Computer Science (Cyber Security & Digital Forensics)

Oct 2022 – Apr 2026

Delhi Public School, Bulandsahr

Higher Secondary Education

April 2020 – Jun 2021