Kinshuk Jain

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Professional Summary

Electrical Engineering student with hands-on experience in power systems, SCADA monitoring, and industrial operations, along with strong experience building full-stack web applications. Skilled in designing secure, scalable products and integrating cloud services, authentication, and data-driven workflows. Actively exploring AI-powered systems and intelligent automation to solve real-world operational problems through practical engineering and modern software development.

Projects

Opaque: Zero-Knowledge Password Manager

Next.js, TypeScript, React, NeonDB, Clerk Auth, Cryptography APIs, TailwindCSS

Live Project | GitHub Repository

- Built a secure password manager using a **zero-knowledge architecture** where plaintext passwords are never stored in the database.
- Implemented client-side encryption workflows ensuring only encrypted cipher data and metadata are persisted.
- Designed secure authentication and session handling using **Clerk Auth** with protected vault access.
- Engineered encrypted vault management for storing credentials, notes, and sensitive user data securely.
- Focused on security-first architecture including encryption boundaries, secret isolation, and controlled access flows.

Kosha: Personal Cloud Storage Platform

Next.js, TypeScript, AWS S3, Clerk Auth, NeonDB, TailwindCSS, AWS Amplify

Live Project | GitHub Repository

- Built a scalable cloud storage platform using **direct browser-to-S3 uploads** through presigned URLs.
- Designed backend architecture where application servers never handle uploaded file bytes directly.
- Implemented atomic PostgreSQL transactions for file verification, metadata persistence, and storage accounting.
- Integrated secure authentication and access control using **Clerk** and structured user metadata with **NeonDB**.
- Developed file management features including uploads, downloads, storage quotas, and metadata search.

M-SCADA: Fault Detection System With AI

Next.js, TailwindCSS, Node.js, AWS, AWS Lambda, API Gateway, AWS Bedrock, OpenAI OSS Model, CloudWatch, Route53, Amplify

- Built an AI-powered fault detection system for monitoring systems and applications to identify abnormalities, errors, and potential failures before operational impact.
- Designed real-time data analysis workflows that process metrics and logs using predefined rules and machine learning based anomaly detection.
- Integrated cloud-native architecture with **AWS Lambda**, **API Gateway**, and **CloudWatch** for scalable alerting, monitoring, and history tracking.
- Applied **AI and LLM capabilities** through **AWS Bedrock** and the **OpenAI OSS 120B model** to support intelligent fault analysis and detection workflows.
- Built the system with a production-ready stack including **Next.js**, **TailwindCSS**, and **AWS Amplify** for deployment and usability.

Technical Skills

Languages & Frontend: JavaScript, TypeScript, React.js, Next.js, Tailwind CSS
Backend & Cloud (AWS): Node.js, REST APIs, Lambda, API Gateway, S3, Amplify, CloudWatch, Route 53, IAM, CloudFront
AI & LLM Integration: AWS Bedrock, OpenAI OSS 120B Model, Anomaly Detection Systems
Databases & Tools: PostgreSQL, NeonDB, Git, GitHub
Authentication & Security: Clerk Auth, Cryptography APIs, Client-Side Encryption, Secure Session Handling

Experience

Uttar Pradesh Power Transmission Corporation Limited (UPPTCL) Jul 2025 – Aug 2025

Intern

- Worked on operation, protection, and maintenance workflows of **132kV and 220kV substations**.
- Monitored **SCADA dashboards** for grid status, outage tracking, and load management.
- Assisted engineers during testing of transformers, relays, CTs, and PTs.
- Supported shutdown procedures, inspection workflows, and technical reporting processes.

Certifications

- AWS Serverless Badge — Jul 2025
- AWS Machine Learning Badge — Jul 2025
- AWS Getting Started with Storage Services — Jul 2025

Education

JSS Academy of Technical Education, Noida 2022 – 2026
B.Tech in Electrical Engineering — Current CGPA: 6.2/10

Sri Chaitanya School, Pune 2022
Maharashtra State Board (Class XII) — Percentage: 64%