# Ujjwal Kesarwani

Full Stack Developer │ B.Tech CSE Student

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| Professional Summary | Computer Science Engineering student with experience developing scalable web applications using modern frameworks, databases, and cloud platforms. Specialized in secure software development including client-side encryption and automated security scanning. Built privacy-focused data sharing platform with zero-knowledge architecture and one-time access controls, achieving 99.9% security compliance. Exploring generative AI product development to create solutions for millions of users. Strong foundation in data structures, algorithms, and software engineering with ability to translate business requirements into secure technical solutions |
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## Experience

**Global Eye Intelligence**  —  March 2025 - May 2025
Development Intern  —  Gandhinagar, Gujarat

**Technologies**: Next.js, tRPC, TanStack Query, BetterAuth, Plate.js, PostgreSQL, Prisma, MinIO, Redis, Docker

- Designed RESTful API architecture for publication platform serving 500+ concurrent users, implementing tRPC and Prisma ORM to reduce integration errors by 40%
- Engineered secure authentication pipeline using BetterAuth with role-based access control, eliminating 50% of security vulnerabilities
- Optimized database query performance through PostgreSQL indexing and Redis caching, decreasing server response times by 30%
- Enhanced content management using Plate.js integration, supporting real-time collaborative editing for improved user engagement

## Key Projects

**SecureShare** │ 🔗Live Demo  —  July 2025
One Time Encrypted Secret Sharing Tool

**Technologies:** Next.js, Web Crypto API, FastAPI, PostgreSQL

- Built privacy-first data sharing platform enabling one-time access to sensitive information with automatic link expiration
- Implemented zero-knowledge architecture using Web Crypto API for client-side encryption, ensuring server never accesses plaintext content
- Developed automated cleanup system that permanently destroys data after single access, maintaining 99.9% security compliance
- Architected FastAPI backend with PostgreSQL for metadata management, achieving sub-200ms response times for link validation

**Remote Pilot Training Program** │ 🔗Live Demo  —  January 2025
Full-stack LMS for drone pilot certification

**Technologies:** React, Express.js, Node.js, PostgreSQL, Prisma, Docker, NGINX, Recoil, Zod

- Architected scalable database infrastructure using PostgreSQL and Prisma ORM, designing schemas for user management, course delivery, and certification tracking
- Secured application architecture through JWT authentication, OTP verification, and role-based authorization, achieving 70% reduction in security vulnerabilities
- Enhanced backend reliability using Zod validation, bcrypt encryption, and structured error handling, improving API stability by 85%
- Optimized user experience with React and Recoil state management, implementing efficient form validation that reduced client-side errors by 40%

## Education

**Rashtriya Raksha University**  —  August 2023 - Present
Bachelor of Technology in Computer Science & Engineering

- **Courses:** Object Oriented Programming, Data Structures And Algorithms, Computer Networks, Database Management System

## Achievements & Recognition

**Competitive Programming & Leadership**

- TCS Code Vita Season 12: Secured **global rank 4413** among half million participants, demonstrating strong algorithmic thinking skills.
- Smart India Hackathon (SIH) Team Leader: Successfully guided cross-functional team through 48-hour CodeArena hackathon, developing MERN stack hospital management system that qualified for national-level competition.
- Solved more than 500 questions on platforms such as LeetCode, HackerRank, CodeChef demonstrating comprehensive problem-solving expertise.
- Project Leadership: Led technical architecture decisions and coordinated development workflows across multiple full-stack projects, mentoring team members on best practices.

## Skills

**Languages:** Javascript, Typescript, Python, C/C++

**Frameworks & Libraries:** Node.js, React.js, Express.js, Next.js, Mongoose, Recoil, tRPC, FastAPI, Django

**Databases:** MongoDB, PostgreSQL, Redis, MinIO

**Tools:** Prisma ORM, Docker, CI/CD, Git, NGINX