

# Ujjwal Kesarwani

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## Education

Rashtriya Raksha University	08/2023 - 08/2027
Bachelor of Technology in Computer Science & Engineering   GPA: 7.59/10	Gandhinagar, Gujarat
<ul style="list-style-type: none"><li>Relevant Coursework: Object Oriented Programming, Data Structures And Algorithms, Computer Networks, Database Management System</li></ul>	

## Work Experience

Rashtriya Raksha University	01/2025 - 02/2025
Development Intern	Gandhinagar, Gujarat
Technologies: React, Express.js, Node.js, PostgreSQL, Prisma, Docker, NGINX, Recoil, Zod	
<ul style="list-style-type: none"><li>Built Full-stack Learning Management System for drone pilot certification</li><li>Architected scalable database infrastructure using PostgreSQL and Prisma ORM, designing schemas for user management, course delivery, and certification tracking</li><li>Secured application architecture through JWT authentication, OTP verification, and role-based authorization, achieving 70% reduction in security vulnerabilities</li><li>Enhanced backend reliability using Zod validation, bcrypt encryption, and structured error handling, improving API stability by 85%</li><li>Optimized user experience with React and Recoil state management, implementing efficient form validation that reduced client-side errors by 40%</li></ul>	
Global Eye Intelligence	03/2025 - 04/2025
Development Intern	Gandhinagar, Gujarat
Technologies: Next.js, tRPC, TanStack Query, BetterAuth, Plate.js, PostgreSQL, Prisma, MinIO, Redis, Docker	
<ul style="list-style-type: none"><li>Established a robust, type-safe API architecture for a publication platform using tRPC and Prisma ORM, enabling end-to-end type safety that eliminated runtime errors and reduced integration bugs by 40%.</li><li>Engineered secure authentication pipeline using BetterAuth with role-based access control, eliminating 50% of security vulnerabilities</li><li>Optimized database query performance through PostgreSQL indexing and Redis caching, decreasing server response times by 30%</li><li>Enhanced content management using Plate.js integration, supporting real-time collaborative editing for improved user engagement</li></ul>	

## Key Projects

SecretShare   <a href="#">Live Demo</a>   <a href="#">GitHub</a>	07/2025
One Time Encrypted Secret Sharing Tool	
Technologies: Next.js, Web Crypto API, FastAPI, PostgreSQL, Docker	
<ul style="list-style-type: none"><li>Built privacy-first data sharing platform enabling one-time access to sensitive information with automatic link expiration</li><li>Implemented zero-knowledge architecture using Web Crypto API for client-side encryption, ensuring server never accesses plaintext content</li><li>Developed automated cleanup system that permanently destroys data after single access, maintaining 99.9% security compliance</li><li>Architected FastAPI backend with PostgreSQL for metadata management, achieving sub-200ms response times for link validation</li></ul>	
Assignment   <a href="#">Live Demo</a>   <a href="#">GitHub</a>	08/2025
AI-powered Academic Document Generator	
Technologies: Next.js, LangChain, LLM	
<ul style="list-style-type: none"><li>Engineered end-to-end academic document automation system, reducing assignment creation time by 75% through intelligent PDF generation from user queries</li><li>Developed human-in-the-loop editing interface enabling 3x faster content customization compared to traditional document creation</li><li>Implemented custom template upload feature allowing users to integrate institutional letterheads and cover pages into generated PDFs</li></ul>	
Polygon Annotation Tool   <a href="#">Live Demo</a>   <a href="#">GitHub</a>	08/2025
Technologies: Next.js, Tailwind CSS	
<ul style="list-style-type: none"><li>Built interactive web-based polygon drawing tool for ML data preprocessing, enabling precise region annotation on uploaded images</li><li>Developed responsive drawing interface supporting multiple polygon creation, editing, and deletion with intuitive click-to-draw functionality</li><li>Engineered coordinate export feature for seamless integration with computer vision training pipelines and dataset preparation workflows</li></ul>	

## Achievements & Recognition

<ul style="list-style-type: none"><li>TCS Code Vita Season 12: Secured <b>global rank 4413 among half million participants</b>, demonstrating strong algorithmic thinking skills.</li><li>Hackathon Experience: Worked with cross-functional teams in fast-paced environments — developed a MERN-stack hospital management system during a 48-hour CodeArena Hackathon that advanced to the national-level round, and currently serving as team lead in ongoing GenAI Exchange Hackathon and Statathon, actively contributing to problem-solving and collaboration.</li></ul>	
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## Certifications

<ul style="list-style-type: none"><li>Explore Generative AI with the Vertex AI Gemini API   Google Cloud Skills Boost   <a href="#">Credential URL</a></li><li>Inspect Rich Documents with Gemini Multimodality and Multimodal RAG   Google Cloud Skills Boost   <a href="#">Credential URL</a></li></ul>	08/2025
<ul style="list-style-type: none"><li>Skills: Generative AI, Gemini, Python, Vertex AI</li><li>Skills: Multimodality, Retrieval-Augmented Generation (RAG), Python, Vertex AI</li></ul>	08/2025

## Skills

Languages: HTML, CSS, Javascript, Typescript, Python, C/C++
Frameworks & Libraries: Node.js, React.js, Express.js, Next.js, Mongoose, Recoil, tRPC, FastAPI, Django, LangChain
Databases: MongoDB, PostgreSQL, Redis, MinIO, Chroma DB
Tools: Postman, Prisma ORM, Docker, CI/CD, Git, NGINX, Vercel, AWS, LLM, Gemini

## Coding Profiles

- [Leet Code](#)
- [Code Chef](#)
- [Hacker Rank](#)