

Shreyash Umrao

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EDUCATION

ATME College of Engineering, Mysore

Bachelor of Engineering in Computer Science (Artificial Intelligence & Machine Learning)

2022 – 2026

PROJECTS

Document Vault | *FastAPI, PostgreSQL (pgvector), Redis, React, Tailwind CSS, LLMs, Docker* | *Live · GitHub*

- Built a full-stack AI document platform for uploading PDFs, performing semantic search, and answering natural-language questions using a RAG pipeline with LLMs and vector embeddings
- Designed an asynchronous document processing pipeline with Redis Queue (RQ), reducing upload API response time to <300 ms while offloading document analysis to background workers
- Implemented semantic search using pgvector and Jina embeddings, enabling similarity search across thousands of document chunks with top-k retrieval in <150 ms
- Built secure and scalable storage infrastructure using Fernet encryption, Cloudflare R2 object storage, and Redis caching, reducing repeated search latency by 80%

CloudShare | *FastAPI, PostgreSQL, React, Tailwind CSS, Cloudflare R2, Docker* | *Live · GitHub*

- Built a full-stack cloud file sharing platform using FastAPI, React, PostgreSQL, and Cloudflare R2, enabling users to upload, store, and share files via secure presigned URLs that offload file delivery directly to object storage
- Implemented JWT-based authentication with access and refresh tokens, secure password hashing (bcrypt), and protected API routes for authenticated user session management
- Designed a file analytics system that logs downloads, IP addresses, browser/OS metadata, and geolocation data, generating minute-level access timelines across a rolling 30-minute window using PostgreSQL aggregations
- Developed a responsive React + Tailwind dashboard with file upload progress tracking, password-protected share links, and analytics visualizations using Recharts, displaying up to 100 recent access events per file

SkillShare | *FastAPI, PostgreSQL, React, Tailwind CSS, WebSockets, Docker* | *Live · GitHub*

- Built a full-stack skill exchange platform using React and FastAPI, enabling users to publish skills, discover other users, and initiate peer-to-peer trade requests
- Implemented JWT-based authentication and protected API routes, securing user data and managing access control across 10+ REST endpoints
- Designed a real-time messaging system using Socket.IO and WebSockets, enabling instant message delivery between users after trade approval with sub-second latency
- Developed a PostgreSQL relational database schema using SQLAlchemy, leveraging optimized joins and indexed conversation keys for efficient retrieval of chat history and user skills

TECHNICAL SKILLS

Languages: Python, JavaScript, SQL, HTML, CSS

Frameworks & Libraries: FastAPI, React, Tailwind CSS, SQLAlchemy, Socket.IO

Databases: PostgreSQL (pgvector), Redis, SQLite

Tools & Technologies: Docker, Nginx, Git, GitHub, Cloudflare R2, REST APIs, WebSockets, JWT Authentication