Utsav Joshi

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Education

IGNOU　　　　　　　　　　　　　　　　　　　　　　　　Expected May 2026
Bachelor of Computer Application　　　　　　　　　　　　　　　*India, Delhi*

Experience

IIT Madras　　　　　　　　　　　　　　　　　　　　July 2024 – Present
Software Engineer　　　　　　　　　　　　　　　　　　　　　*Remote*
- Collaborated with a team to design, develop, and deploy a MERN (MongoDB, Express.js, React, Node.js) stack application from scratch.
- Integrated Supabase for backend services, utilizing its real-time capabilities and authentication features..
- Leveraged Supabase's PostgreSQL database, designing efficient data models and performing CRUD operations.
- Utilized Git for version control and collaborated with the team using GitHub for code reviews and project management.

Projects

Vector Search | *Node. js, Pinecone, Express. js, Redis*
- Led the development of a vector-based search engine for large datasets using Node.js and Pinecone, improving search accuracy and relevance.
- Converted extensive datasets into vector representations and stored them in Pinecone, enabling efficient and precise search queries.
- Designed and implemented a scalable RESTful API with Express.js, facilitating seamless integration and data retrieval.
- Utilized Redis for caching, enhancing search speed and reducing response times.
- Achieved a significant increase in user engagement by optimizing the search feature to deliver the best possible outcomes.

Conversa | *HTML, CSS, Express.js, Socket.IO, MERN Stack*
- Implemented basic socket.io functionalities for learning purposes, allowing users to create chat rooms, engage in group chat, and share live locations.
- Currently developing an updated version with enhanced frontend functionalities.
- Designed and implemented user interfaces using HTML and CSS for a responsive and intuitive user experience.

Course app | *React.js, Node.js, Express.js, MongoDB*
- Developed a frontend replica of a course app with customizations inspired by the Apna College application.
- Initiated work on an independent course app project, exploring innovative features and design improvements.

Technical Skills

Languages: Javascript, TypeScript
Technologies: React.js, Next.js, Express.js, Node.js, MongoDB, Supabase, Docker, TailwindCSS, Redux, jQuery, Bootstrap, Pug, Pinecone, Redis
Concepts: MERN Stack, Compiler, Operating System, Virtual Memory, Cache Memory, Encryption, Decryption, Vector Search, API, Database Normalization, Agile Methodology, Cloud Computing