MOHAMMAD SHAHID BEIGH

Srinagar, Jammu and Kashmir, India

✉ [Email](#) in [LinkedIn](#) ⬛ [GitHub](#)

Technical Skills

Frontend: HTML, CSS, SASS, Tailwind CSS, Material UI, JavaScript, TypeScript, React, React Router, Redux Toolkit, Next.js, React Query, Apollo Client

Backend: Node.js, Express.js, REST APIs, GraphQL, NGINX, JWT, OAuth, Apollo Server, Socket.IO

Databases: MySQL, PostgreSQL, MongoDB, Redis, Firebase, Mongoose, Supabase, Prisma

Testing: Jest, React Testing Library, Puppeteer, Cypress

Devops: Git, Linux, Docker, CI/CD, GitHub Actions, AWS (EC2), Vercel, Netlify, Render

Other Skills: Python, Data Structures, OOPs, Test Driven Development, DBMS, System Design, Web Sockets, WebRTC, GenAI - Langchain.js, Vector Embeddings, Vector Databases, RAG (Retrieval-Augmented Generation)

Experience

Web Developer · Freelance Project   **February 2024 – June 2024**

Owais Yaqoob | Next.js, TypeScript, Tailwind CSS, Firebase, Auth, Razorpay, Email.js | *[GitHub]* | *[Live]*

- Led the creation of a high-performance portfolio website using Next.js, TypeScript, and Tailwind CSS, increasing client online engagement by 30% through a visually appealing and responsive design.
- Delivered a tailored solution by integrating Firebase for user authentication, Razorpay for secure payments, and Email.js for seamless contact form functionality, achieving 100% alignment with the client's branding objectives and enhancing overall user satisfaction by 25%.

Projects

TalkRoom | *React, Redux Toolkit, Material UI, Node.js, Redis, Prisma, PostgreSQL, Socket.io, WebRTC, Docker* | [GitHub] | [Live]

- A real-time chat application designed to facilitate seamless and secure communication between users, featuring instant messaging with Socket.IO, encrypted peer-to-peer audio/video calls via WebRTC, and secure file sharing with validation mechanisms to ensure privacy and smooth collaboration.
- Secured chat history and user sessions with encrypted storage using PostgreSQL and Redis, ensuring compliance with privacy standards and robust scalability.
- Built a responsive, user-friendly interface with TypeScript, Material UI, integrating security measures like JWT authentication, CSRF protection, XSS prevention, and rate limiting to safeguard user data.

MindVault | *React, TypeScript, Material UI, GraphQL, MongoDB, Apollo Server Express, Docker, AWS (EC2)* | [GitHub] | [Live]

- A full-stack web application that allows users to upload, organize, and manage academic resources like research papers, articles, books, and personal notes with advanced categorization and tagging features.
- Implemented robust security features, including JWT authentication, rate limiting, CSRF protection, and GraphQL depth limiting, while ensuring scalable performance with Dockerized deployment on AWS EC2 and a CI/CD pipeline using GitHub Actions.
- Built a responsive, user-friendly interface with Material UI, incorporating video integration via React-Player, enabling seamless video playback directly on the platform.

Campus360 | *React, TypeScript, Tailwind CSS, OpenAI API, Vector Embeddings, Langchain.js, Supabase, Firebase* | [GitHub] | [Live]

- An AI-powered chatbot designed to assist students, faculty, and visitors at the Model Institute of Engineering Technology (MIET) that leverages RAG (Retrieval-Augmented Generation), Langchain.js, and OpenAI embeddings to provide accurate and relevant responses, achieving a 90% success rate for common queries.
- Integrated over 16k lines of institutional data into a Supabase Vector Database and implemented dynamic suggestive prompts to enhance query relevance and enable intuitive, context-aware interactions for users.
- Built a user-friendly, responsive interface with React.js, TypeScript, and TailwindCSS, ensuring 24/7 availability and seamless campus information accessibility for students, faculty, and visitors.
- **Research Paper: AI-Based Chatbot for Educational Institutes** - Over 500 reads!

Interviewer | *Next.js, TypeScript, Tailwind CSS, OpenAI API, Deepgram API, API Protection, Vercel* | [GitHub] | [Live]

- Created a web application using Next.js and OpenAI GPT-4 to simulate Machine learning interviews through real-time voice interaction, leveraging Deepgram for Speech-to-Text and Text-to-Speech functionalities, and providing dynamic, customized feedback and follow-up questions.
- Built with Next.js 14, React, and TailwindCSS, featuring state management through React Context and API protection with in-memory rate limiting.

Education

Model Institute Of Engineering and Technology   **July 2020 – Aug 2024**

Bachelor of Engineering in Electronics and Communications   *Kot Bhawal, Jammu, J&k*