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, 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 Databases, RAG (Retrieval-Augmented Generation)

Experience

Full-Stack 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%.
- Implemented Firebase for secure user authentication and as a real-time database, Razorpay for seamless payment processing, and Email.js for automated contact responses, improving client 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.
- Designed a 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

- Built 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.
- Engineered a sleek, responsive design 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

- Designed and implemented an AI-powered chatbot for the Model Institute of Engineering & Technology (MIET), utilizing LangChain.js, OpenAI vector embeddings, and Retrieval-Augmented Generation (RAG) to deliver accurate, context-aware responses, achieving a 90% success rate for queries.
- Processed over 16k lines of institutional data in Supabase Vector Database, implemented LangChain-powered dynamic suggestive prompts to improve query accuracy and deliver context-aware user interactions.
- Developed a highly interactive and responsive interface using React.js, TypeScript, and TailwindCSS, resulting in a 50% reduction in user queries related to campus information and ensuring 24/7 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.
- Erected 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*