Muhammad Tayyab Asghar

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Experience

Full-Stack Engineer

June 2024 – Present Remote, Worldwide

Freelancing • Developed scalable web applications using Angular and React, TS, improving performance and maintainability.

- Designed and implemented data visualization dashboards, enhancing analytics accessibility for business users.

• Integrated AI model for interactive product documentation chat, enhancing accessibility and user experience.

Software Engineer Ensemble Technologies Sep 2024 - Nov 2024

Remote Contract, CA

- Developed and delivered the desktop app using Electron.js, ensuring 100% cross-platform compatibility.
- Designed and implemented a local file system enabling users to create and edit applications offline, seamlessly synchronizing data upon internet reconnection through Firestore Cloud Functions.
- Achieved 30% test coverage for Firestore Cloud Functions using Jest and implemented the repository pattern to improve code organization.
- Integrated Git support, enabling code storing on repository management services like GitHub and Bitbucket.

Software Engineer (Outsourced by Rolustech) LexCheck

Jun 2022 - May 2024

Remote, Pakistan

- Lead the revamp of the LexCheck app, enhancing UI/UX and performance, leading to a 20% increase in sales.
- Transformed Figma designs into pixel-perfect UI components, collaborating with the UI/UX team.
- Implemented Role-Based Access Control (RBAC) with user-specific dashboards and data visualizations, improving access control and security.
- Reduced bundle size by 10%, implemented lazy loading, fixed memory leaks, and removed redundant libraries to reduce initial load time and optimize performance by 35%.
- Strengthened security by enforcing strict CSP headers, securing sensitive data with Web APIs, and ensuring SOC 2 Type II compliance.
- Collaborated in the migration of cloud infrastructure from AWS to Azure DevOps, optimizing performance and reducing operational costs by 30%.

Education

University of Engineering and Technology

Lahore, PK

Bachelors in Computer Science

Oct 2018 - March 2020

Projects

AgentTube

github.com/TayvabAsghar/AgentTube

- AgentTube is an AI-powered content creation assistant that analyzes YouTube videos and enhances content generation using advanced AI models like Claude and Gemini. By providing a video link, users can generate transcripts, receive AI-suggested video titles, create improved or alternative scripts, and generate AI-powered thumbnails using OpenAI.
- Tech Stack: Next.js, Tailwindcss, shadcn/ui, AI SDK Vercel, Gemini AI, Convex, Clerk, Vercel

ChatPDF

github.com/TayyabAsghar/ChatPDF

- ChatPDF is a Next.js app that lets users upload PDFs and interact with them via AI-powered chat. Using Langchain, Pinecone, and Google Gemini AI, it enables question answering, key information retrieval, and content summarization seamlessly.
- Tech Stack: NextJs, Tailwindcss, shadcn/ui, Firebase, Pinecone, LangChain, Gemini AI, Cloudinary, Clerk, Vercel

Technologies

Backend: Node.js, Express.js, Nest.js Swagger, MSSQL, MongoDB, Firestore, Rest API Frontend: Angular, Next, React, Electron, JS/TS, HTML/CSS, Sass, JEST, Storybook

Cloud Technologies: Azure DevOps, AWS, GitHub Actions, Vercel

Libraries: Redux, RxJs/NgRx, Material UI, Tailwindcss, shadcn/ui, Ant Design, React-Ouery

Tools/Methodologies: Figma, Jira, Azure Boards, Github Boards, Agile, Kanban, Git, Github, BitBucket