

Muhammad Tayyab Asghar

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github.com/tayyabasghar

Experience

Software Engineer

June 2024 – Present

Freelancing

Remote, Pakistan

- Reduced initial loading time, leading to faster page performance and improved customer retention.
- Redesigned and optimized landing pages with enhanced product presentation and integrated data visualization, improving user experience and engagement.

Software Engineer

Sep 2024 – Nov 2024

Ensemble Technologies

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)

Jun 2022 – May 2024

LexCheck

Remote, Pakistan

- **Revamped the LexCheck app**, enhancing UI/UX and performance, leading to a **20% increase in sales**.
- **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

YASAC - Social App

github.com/TayyabAsghar/yasac

- Developed a full-stack social app and implemented core features like **user authentication**, **organization management**, **thread posting**, **likes**, and **public/private account settings**, ensuring seamless user interactions. Integrated **Clerk webhooks** to synchronize user activity with **MongoDB**, maintaining data integrity.
- Tech Stack: Next.js, Tailwindcss, shadcn/ui, MongoDB, Clerk, Vercel

Place Finder

github.com/TayyabAsghar/place-finder

- Built an app for booking accommodations with secure **JWT token-based authentication** and implemented **hashing and salting** for data protection. Optimized performance through code splitting, lazy loading, and **Cloudinary** integration for efficient image processing and delivery.
- Tech Stack: React, Tailwindcss, MongoDB, JWT, Express.js, Redux, Cloudinary, Render

Technologies

Backend: Node.js, Express.js, Swagger, MSSQL, MongoDB, Firestore

Frontend: Next, React, Electron, Angular, JS/TS, HTML/CSS, Sass, JEST, Storybook

Cloud Technologies: Azure DevOps, AWS, GitHub Actions

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

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