Muhammad Tayyab Asghar

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Experience

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**.
- **Enabled offline editing & real-time synchronization**, integrating **Firestore Cloud Functions**, allowing users to create applications offline.
- **Achieved 30% test coverage** for the **Firestore Cloud Functions** using Jest and setting up 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.
- **Optimized app performance by 35%** by **reducing bundle size by 10%**, implementing **lazy loading, memory leak fixes, and removing redundant libraries**.
- **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%**.
- **Streamlined the onboarding process** for junior developers by **documenting workflows and best practices**, improving efficiency by **40%** and reducing training costs.

Education

University of Engineering and Technology,   Lahore, PK
Bachelors in Computer Science   Oct 2018 – March 2020

Projects

YASAC - Social App   github.com/name/repo

- 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   place-finder.onrender.com

- Built an app for booking accommodations with secure **JWT** token-based authentication and hashing & salting for data protection. Optimized performance with 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

Frontend: Next, React, Electron, Angular, JS/TS, HTML/CSS, Sass
Backend: Node.js, Express.js, Swagger
Cloud Technologies: Azure DevOps, AWS, GitHub Actions
Testing Units & Databases: JEST, Storybook, MSSQL, MongoDB, Firestore
Libraries: Redux, RxJs/NgRx, Material UI, Tailwindcss, shadcn/ui, Ant Design, React-Query
Project Management/Methodologies: Jira, Azure Boards, Github Boards, Agile, Kanban
Source Control: Git, Github, BitBucket