

# Muhammad Tayyab Asghar

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github.com/tayyabasghar

## Experience

**Full-Stack Engineer** June 2024 – Present  
Freelancing Remote, Worldwide

- Developed scalable web applications using React, TS, and AWS, improving performance and maintainability.
- Redesigned and optimized landing pages with enhanced product presentation and incorporated 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

- **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

**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