

# Muhammad Tayyab Asghar

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github.com/tayyabasghar

## Experience

**Senior Full-Stack Engineer** Mar 2025 – Present  
Netsol Technologies Hybrid, Pakistan

- Contributed to BMW Customer Journey, a direct BMW digital retail project awarded after a shortlist of **10 global companies**, designed for BMW USA dealerships and currently supporting **10+ dealerships**.
- Built configurable dealership workflows by integrating AppExNow services for APIs, documents, inventory, lending configurations, and order management.
- Implemented analytics tracking and integrated **Mitek**, **Lightico**, and **Stripe** to digitize identity verification, document signing, and payments, reducing dealership visits across **5 applicant/co-applicant flows**.
- Spearheaded a script-injected **Payment Estimator** for dealership websites, serving as the entry point to the customer journey, and built a **Playwright + Lighthouse** dashboard to monitor **2 applications** per deployment.

**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**.
- 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%**, and ensured **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 2022

## Projects

**AgentTube** [github.com/TayyabAsghar/AgentTube](https://github.com/TayyabAsghar/AgentTube)

- AgentTube is an AI-powered content creation assistant that analyzes YouTube videos to generate transcripts, suggest engaging titles, improve or rewrite scripts, and create AI-generated thumbnails using OpenAI.
- Tech Stack: Next.js, Tailwindcss, shadcn/ui, AI SDK Vercel, Gemini AI, Convex, Clerk, Vercel

**ChatPDF** [github.com/TayyabAsghar/ChatPDF](https://github.com/TayyabAsghar/ChatPDF)

- ChatPDF is an 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, FastAPI, 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-Query, Playwright

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