

M. Hassam Khan

SOFTWARE ENGINEER · FRONT-END ENGINEER · COMPUTER SYSTEMS ENGINEER

☎ (+92) 335-2190046 | ✉ hassam@m4kman.dev | 🌐 www.m4kman.dev | 📱 m4kman | 📺 ihassamk

Summary

Computer Systems Engineering graduate and aspiring full-stack developer with over 3 years of hands-on experience working with modern web technologies including React, TypeScript, and CSS. Passionate about building seamless digital experiences and continuously exploring the intersection of development and security. A tech enthusiast at heart, driven by curiosity and a deep fascination with the technologies that power the modern web.

Programming	C++ · Python · JavaScript · TypeScript
Web Development	React · React Router · Next.js · React Query · Zustand · React Form Hook · Shadcn · Zod · Firebase · Tailwind
	CSS · Framer Motion · HTML/CSS
DBMS	MySQL

Work Experience

Vyro AI

Islamabad, Pakistan

FRONTEND ENGINEER

June, 2024 - PRESENT

- Developed and maintained key features for high-traffic products like Imagine Art and Chatly, serving hundreds of thousands of users daily.
- Designed and implemented Chat History in Chatly, enabling seamless chat synchronization and storage, leading to an influx in users and an increase in user conversion.
- Integrated a scalable data analytics architecture with Mixpanel, GA4, and GTM, empowering data-driven decision-making across teams.
- Directed cost-optimization initiatives that reduced title generation expenses by 33%, ensuring alignment with stakeholders.
- Engineered and implemented a series of custom React hooks to streamline and optimize complex and diverse business logic and requirements, maintaining a seamless, high-quality user experience while also ensuring a scalable and clean code architecture.
- Mentored and onboarded new hires, fostering a smooth transition and improving their understanding of the codebase and product ecosystem.
- Led strategic refactoring efforts to enhance code quality, optimize redundant network calls, and boost overall website performance, and much more.

Freelance

Pakistan

FRONTEND ENGINEER

Jan. 2022 - PRESENT

- Partnered with a renowned Dubai-based manufacturing company to develop its online presence, increasing outreach and customer engagement.
- Built and deployed custom tools and Discord bots for Middle Eastern gaming communities, enhancing user experience and operational efficiency.
- Developed automation services that enabled self-service for repetitive customer requests, reducing the need for manual intervention.
- Designed and engineered multiple scalable, generic UI components utilizing various React patterns, ensuring flexibility and ease of integration across diverse use cases and projects.
- Engineered and deployed custom web solutions for gaming communities, significantly enhancing their digital presence and user engagement, which directly contributed to securing high-profile sponsorships from brands like SteelSeries, ExitLag, and others.

Education

Joy of React

Online Course

BY JOSH W. COMEAU

Jun. 2023 - Dec. 2023

- Enhanced my prior understanding of core React concepts: components, state, props, lifecycle methods, context, lazy loading, and more.
- Built interactive applications using React functional hooks for practice.
- Explored and adapted Memoization in React via useMemo, useCallback, React.memo, and React.lazy hooks.

Scrimba

Oslo, Norway

FRONTEND DEVELOPMENT

May. 2021 - Jun. 2022

- Finished the extensive Frontend Career Path from Scrimba.
- Established a solid understanding of web development concepts and technologies which solidified my foundations.
- Completed different capstone projects during my learning.

University of Engineering and Technology

Peshawar, Pakistan

B.S. IN COMPUTER SYSTEMS ENGINEERING

Oct. 2019 - Jun. 2023

- Developed an understanding of various networking principles, especially web servers and clients.
- Gained proficiency in core concepts and programming languages like C++, C, Python, including OOP abstraction.
- Experienced in software development and agile methodologies, including database management and conventions.
- Completed my Final Year Project in **developing an AI Tool for testing user attention via heatmaps**.

Personal Projects

Repik

Website

AN AI APP THAT ENHANCES OLD OR BLURRY PHOTOS, SIGNIFICANTLY IMPROVING THEIR QUALITY AND BRINGING THEM BACK TO LIFE.

July 2024

- Deployed multiple AI models to Replicate for 24/7 access via the privately created API.
- Designed the landing page and user interface for the Repik website.
- Using Next.js to build the frontend of the Repik website, providing an easy drag-and-drop image upload functionality.
- Building a convenient API to facilitate securely feeding user images to the AI model and displaying the output.

Movieable

Website

A MOVIE SEARCH ENGINE DEVELOPED USING NEXT.JS, TMDB AND TAILWIND TO FACILITATE YOUR NEXT WATCH.

March. 2024 - April. 2024

- Developed robust search functionality to fetch movie data from the TMDB API based on user queries, ensuring accurate and relevant search results.
- Utilized Next.js App Router to implement routing for various endpoints, enabling seamless navigation and improved application structure.
- Designed and created intuitive UI components to display API data in an easily digestible format, enhancing user experience.
- Managed multiple API requests and responses efficiently to display comprehensive movie details, ensuring a smooth and responsive user interface.
- Optimized the application for performance by employing techniques such as code splitting and lazy loading, resulting in faster load times and better user experience.
- Ensured the application is fully responsive and mobile-friendly, catering to users on various devices and screen sizes.

Interactive MDX-Based Blog

Website

A SIMPLE QUIZ APP BUILT WITH REACT FOR PRACTICE PURPOSES

Dec. 2023 - Jan. 2024

- Created an MDX blog that facilitates user interactions to better grasp concepts of the discussed topic.
- Implemented blog retrieval and reading functionality by managing promises using the fs API.
- Used Next.js App Router and Next-MDX-Remote libraries to develop the blog in a performant manner.

Pluto

Final Year Project

AN AI TOOL TO TEST USER INTERFACES BY TESTING USER ATTENTION VIA HEATMAPS.

March. 2022 - June. 2023

- Utilized an AI model to detect user attention on designs using heatmaps, providing visual insights into areas of interest.
- Deployed the AI model using Streamlit, creating an intuitive and accessible web application for users to upload design images and view attention heatmaps.
- Implemented a user-friendly feature allowing users to upload design images in picture format, streamlining the process of generating attention heatmaps.

Quizzicle

Website

A SIMPLE QUIZ APP BUILT WITH REACT FOR PRACTICE PURPOSES

Aug. 2022

- Developed a quiz app purely with React with the help of a third-party API.
- Displayed the response of an API call in an orderly manner and cross-checked the chosen answers against the correct ones.
- Presented the correct answers against selected ones to provide an overview of the result.

FACEIT Stats Bot

Discord Bot

A DISCORD BOT DEVELOPED IN JAVASCRIPT WITH THE HELP OF FACEIT AND DISCORD APIS

July. 2022

- Created a Discord bot in JavaScript for our server to provide player stats.
- Integrated with FACEIT API to fetch the required stats of any player.
- Used the Discord API to enable the bot to display the results in a Discord server in a defined template.
- Deployed the bot to Heroku for 24/7 online activity.

The projects can be found on my GitHub or personal website, both linked above.

Certifications

2023 **The Joy of React**, Josh W. Comeau

2022 **Certified Frontend Career Path Graduate**, Scrimba