

M. Hassam Khan

SOFTWARE ENGINEER · FRONT-END ENGINEER · COMPUTER SYSTEMS ENGINEER

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Summary

Computer Systems Engineering major, an aspiring full-stack developer, and security expert. Over 2 years of experience in tinkering with web technologies, diving into React, JavaScript, and CSS code. A techie driven by passion; fascinated by the web and the technologies empowering the websites we drive daily.

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

FRONTEND ENGINEER

Islamabad, Pakistan

July, 2024 - PRESENT

- Developed and maintained **high-traffic websites**, serving thousands of daily users while ensuring optimal performance and reliability.
- Implemented **cutting-edge generative AI features from concept to deployment**, with a focus on user experience and code quality for a large code base.
- Collaborated closely with design teams and internal stakeholders to translate **technical requirements into streamlined, executable solutions**.
- Aided new team members, facilitating their onboarding process and helping them navigate a complex codebase efficiently.
- Led code refactoring initiatives to enhance overall quality and significantly improve website performance.

React Frontend Engineer

FREELANCE

Pakistan

Jan. 2022 - PRESENT

- Two years of experience** working with **React** and its ecosystem, developing a deep understanding of core concepts and best practices.
- Collaborated with a UI designer to develop a professional website for a **rubber manufacturing company in Dubai**, enhancing the company's online presence.
- Created an online presence for the **Middle East Stars League**, a gaming community based in Dubai, to attract sponsors and assist players, significantly boosting the community's visibility.
- Employed third-party APIs in various aspects to communicate and show the overall activity of the gaming community to potential sponsors.
- Utilized Discord and FACEIT APIs to **develop a professional bot** that retrieves personal user stats upon a simple command, facilitating better communication and engagement within the community.
- Facilitated the community with different tools and bots to further improve communication with the staff members.

Education

Joy of React

BY JOSH W. COMEAU

Online Course

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

FRONTEND DEVELOPMENT

Oslo, Norway

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

B.S. IN COMPUTER SYSTEMS ENGINEERING

Peshawar, Pakistan

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