Muhammad Tayyeb

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INTRO

I'm a computer scientist who's genuinely passionate about **software engineering, technology, and AI**. I've had the chance to work across a range of **software design and development projects**, especially in frontend development and engineering frontend architecture at scale.

Most of my work revolves around **JavaScript, Typescript, React.js, Next.js, and Python**—tools I really enjoy using to bring ideas to life. I love building clean, scalable, and reliable systems that solve real problems. I'm also a big believer in Agile practices like Scrum and pair programming, which make the process collaborative and efficient.

EXPERIENCE

Software Engineering Intern   Sep 2024 – Nov 2024
10Pearls Pakistan   *Lahore, PK*

- Built and maintained a role-based edtech platform using **Node.js, Express.js, MongoDB, and Angular**.
- Delivered a **modular backend** and responsive frontend for smooth user experiences across devices.
- Improved system stability through structured error handling, logging, and proactive performance monitoring.
- **Managed Git workflows**, participated in code reviews, and supported collaborative, conflict-free development.

Frontend Engineer (Contract/freelance)   July 2024 – Oct 2024
Clickable360 (Remote)   *London, UK*

- Built a component-based frontend using React.js and Next.js with server-side rendering (SSR), optimizing product display and page load speeds. Strategically **balanced browser performance** by splitting static and dynamic content, and offloading stateless rendering to the server—resulting in an **overall performance improvement of up to 80%.**
- Led and mentored two interns through **code reviews, bug resolution, refactoring, Git workflow management**, and pair programming to ensure high-quality, maintainable code.

ReactJS Engineer Intern   Jan 2024 – May 2024
DSME Global Links (onsite)   *Lahore, PK*

- Built intuitive and responsive UIs using React.js, collaborating closely with the frontend engineering team to align on design and functionality.
- Ensured seamless user experiences by translating product goals into performant, accessible, and visually consistent interfaces.
- Applied optimization techniques like **useMemo, React. Memo, and useCallback to eliminate unnecessary re-renders**.

PROJECTS

Tradetoppers / *React, Nextjs, MySQL, Virtual Private Server (Ubuntu) View Website*

- **Developed 30+ reusable, modular components** using React.js and Next.js, improving development speed and maintainability across projects.
- Optimized performance through Memoization, function caching, and render control, **reducing unnecessary React DOM updates by over 70%**.
- Reduced network resource usage by 85% by eliminating redundant API calls and optimizing data flow for scalability.

SumSmart AI / *Nextjs, Nodejs, Expressjs, Vercel, Railway*

- Developed a **full-stack AI aggregator platform** using React.js, Node.js/Express.js, and MongoDB, enabling users to access multiple **AI-powered automation tools in one place.**
- Integrated the **Gemini Model API** to process AI-based POST requests, allowing dynamic interactions like **code analysis and summarization through a custom RESTful API.**

TECHNICAL SKILLS

- **Languages**: HTML/CSS, Javascript, Python, C++
- **Frameworks**: ReactJS, Nextjs, FastAPI, Nodejs
- **Developer Tools**: Git, VS Code, Visual Studio, Github, Vercel, Railway
- **Databases:** MySQL, PostgreSQL

CERTIFICATIONS

- Introduction To Software Engineering | IBM
- Understanding the Basics of React | **10Pearls**
- Introduction to API Testing with Postman | **10Pearls**
- Foundations of Project Management | Google
- Computer Science Bootcamp | **Arbisoft**

EDUCATION

Virtual University of Pakistan   Lahore, PK
Bachelor of Computer Science   *Aug. 2021 – Sep 2025*

Forman Christian College   Lahore, PK
Intermediate in Computer Science   *Aug. 2019 – May 2021*