

Muhammad Wasif Malik

Software Engineer

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ABOUT

Full Stack Developer with over two years of hands-on experience building web applications using **React** and **Next.js**. I specialise in creating responsive user interfaces and integrating them with backend APIs to deliver complete solutions. My professional work focuses primarily on the **MERN** stack and **Next.js**, where I have developed production applications, including real-time collaborative tools and enterprise management systems. I am comfortable working across the full development lifecycle, from designing database schemas to deploying applications on cloud platforms. Currently pursuing my Bachelor's degree in **Software Engineering** while actively expanding my technical knowledge through personal projects exploring **Go**, **Python** frameworks, and **React Native** for mobile development.

TECHNICAL EXPERTISE

- **Frontend:** React, Next.js 14/15/16, TypeScript, Redux Toolkit, Tailwind CSS, Framer Motion, SCSS.
- **Backend:** Node.js, Go (Golang), Python (FastAPI, Django), RESTful APIs, WebSockets.
- **Databases:** PostgreSQL (Relational Design), MongoDB, MySQL, Firebase, RDS.
- **Cloud & DevOps:** AWS (S3, EC2), Vercel, Docker, Git, GitHub Actions, CI/CD.
- **Tools:** Jira, Confluence, Postman, Clerk Auth, Liveblocks, Zod, Lexical Editor

Work Experience

Next.js Developer | Avialdo Solutions

February 2025 - Present | Karachi, Pakistan

- **Architecture:** Developing production-grade applications using Next.js 15, focusing on server-side rendering (SSR) and optimised data fetching.
- **Database Management:** Designing and managing complex PostgreSQL schemas; optimising queries to ensure data integrity for enterprise-level systems.
- **Agile Collaboration:** Leading technical decision-making in an Agile environment using Jira and Confluence to track sprints and document system architecture.

Frontend Developer | Liftup AI

January 2024 - March 2024 | Jamshoro

- **UI/UX Engineering:** Engineered responsive interfaces using React and Redux; implemented a reusable component library with Tailwind CSS, reducing development time for new features by 30%.
- **Integration:** Seamlessly integrated RESTful APIs to handle dynamic, real-time data updates for AI-driven dashboards
- **Optimisation:** Achieved 60fps animations and sub-2s page loads through code-splitting and asset optimisation.

Web Designer | Interns Pakistan

October 2022 - December 2022 | Remote, Pakistan

- Established foundation in web development through hands-on experience with HTML5, CSS3, and modern JavaScript (ES6+). Learned version control with Git and GitHub workflows. Developed clean, semantic code following industry best practices and accessibility standards.
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WORK (PROJECTS)

Learny – AI-Powered EdTech Platform (FYP)

Next.js 15, TypeScript, PostgreSQL, getStream, Tailwind CSS, Firebase

- Gamification Logic:** Developed a custom engine with an XP system and streak multipliers; implemented levelling using the formulas.
- Real-Time Engagement:** Integrated getstream for synchronous video study groups and implemented role-based access for Students, Teachers, and Admins.

DocXO – Real-Time Collaborative Editor

Next.js, Liveblocks, Lexical Editor, Clerk Auth, TypeScript

- Concurrency:** Built a Google Docs-inspired portal allowing multiple users to edit documents simultaneously with conflict-free resolution via Liveblocks.
- Rich Text:** Integrated Lexical Editor with features for inline commenting, secure email invitations, & version history.

NetLink – High-Performance Chat Backend

Go (Golang), WebSockets, PostgreSQL

- Concurrency:** Leveraged Go's Goroutines and Channels to handle thousands of concurrent WebSocket connections with minimal latency.
- Systems Design:** Architected a lightweight protocol for bidirectional messaging and persistent storage of chat history.

Scrapo – Automated Web Scraping Tool

Python, FastAPI, Trafalatura, APScheduler, SQLite

- Data Pipelines:** Built a dual-mode scraper (on-demand and scheduled) utilising **Trafalatura** for robust text extraction from complex DOM structures.
- Automation:** Implemented automated email reporting and multi-format exports (CSV, PDF, Excel) for analysed data.

Django Blogs – Minimal Blog CMS

- Tech:** Django 5.0, Python, CodeMirror, SQLite.
- Key Achievement:** Developed a full-featured CMS with Markdown support, real-time previews, and optimised ORM queries.

DevToolsHQ – Developer Productivity Suite

- **Tech:** Next.js, TypeScript, Firebase Auth.
 - **Key Achievement:** Created a unified dashboard of utility tools (formatters, testers, code generators) optimized for Developer Experience (DX).
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EDUCATION

Bachelor of Science in Software Engineering | University of Sindh | 2022 – 2026

Intermediate - Pre-Engineering

Eagle House | 2021 - 2022 | Percentage: 89%

Matriculation - Science

Eagle House | 2019 - 2020 | Percentage: 84.24%

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