Saad Waheed

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Summary

Passionate Software Engineer with a strong background in MERN Stack and frontend development. I have hands-on experience building responsive, user-friendly interfaces using React.js, TypeScript, JavaScript, HTML, CSS and modern UI libraries, while also having exposure towards backend development with Node.js and MongoDB. Experienced in REST API development and integration, React Hooks, state management, asynchronous programming, Figma-to-code implementation, reusable component development, frontend debugging, responsive design and performance optimization. Familiar with scalable and modular software architecture, MongoDB optimization, Docker, CI/CD workflows, WebSockets, cloud deployment and modern full-stack development practices. I thrive in collaborative, agile environments and continuously seek opportunities to learn emerging technologies.

Technical Skills

Technology Stacks: MERN Stack, PERN Stack, MEAN Stack, NNP Stack, NSP Stack

Programming Languages: JavaScript, TypeScript

Frontend Technologies: React.js, React Native, Next.js, Angular, HTML5, CSS3, SCSS, Tailwind CSS, jQuery, Bootstrap, Responsive Web Design

React & State Management: React Hooks, Redux Toolkit, Context API, Component-Based Design, Reusable Components

Backend & Runtime: Node.js, Express.js, NestJS, Strapi, RESTful APIs, Promises, Async/Await

Frontend Architecture & Integration: REST APIs, Reusable Components, Client-Side Templates, Handlebars, Server-Rendered Views, ASP.NET MVC Razor Views

UI/UX & Design: Figma-to-Code, Design Systems, Visual Hierarchy, Typography, Spacing, Accessibility, Cross-Browser Compatibility

Internationalization: RTL and LTR Interface Development, Arabic RTL and English LTR Layout Awareness

Real-Time Development: WebSockets, Socket.IO, Real-Time Client-Server Communication

Debugging & Tooling: Browser DevTools, Frontend Debugging, Responsive Debugging, API Integration Debugging, npm, pnpm, Vite

Non-Relational Databases (NoSQL): MongoDB, Schema Design, Aggregations, Indexing, Query Optimization, Performance Tuning

Relational Databases (SQL): MySQL, PostgreSQL

AI Development Tools: Cline, Codex, Claude AI, Cursor, LLM-Assisted Development

Professional Tools: Asana, Everhour, Pumble

Development Workflow: Git, Agile Development, QA Collaboration, Cross-Functional Collaboration, Frontend Documentation

DevOps & Deployment: Docker, Git, AWS, Vercel, Render, CI/CD, Deployment Pipelines

Personal Projects

Avora - Multi-Tenant ERP SaaS Next.js, NestJS, PostgreSQL, Prisma ORM, React Native
Product Owner & Lead Engineer *https://app.wl-avora.com/*

- Developed a comprehensive **multi-tenant Enterprise Resource Planning (ERP) and Business Process Automation Platform**, integrating enterprise operations, departmental workflows, resource management, and administrative processes into a centralized ecosystem.
- Engineered a **full-stack enterprise web application and cross-platform mobile application** using Next.js, NestJS, PostgreSQL, Prisma, and React Native, supporting business operations across desktop and mobile environments.
- Architected a **multi-tenant infrastructure** with tenant-isolated PostgreSQL data, centralized platform administration, independent organizational configurations, secure authentication, and Role-Based Access Control (RBAC).

- Designed and developed interconnected ERP modules, including **Company Administration, Human Resource Management (HRM), Employee Management, Department Management, Attendance & Time Tracking, Leave Management, Payroll & Payslips, Task Management, Finance & Accounting, Procurement, Inventory Management, Warehouse Management, Manufacturing & Production, Sales Management, and Marketing Management**.
- Built a comprehensive **HRM ecosystem** covering employee profiles, employment records, organizational departments, designations, attendance, shifts, leave requests, work-from-home management, payroll processing, and employee documentation.
- Engineered **Finance & Accounting automation**, integrating procurement and sales invoices, expense management, financial transactions, payroll synchronization, and cross-departmental financial workflows while retaining manual entry and adjustment capabilities.
- Developed **Procurement, Inventory, and Warehouse Management** functionalities supporting supplier records, purchasing workflows, material tracking, stock movement, warehouse operations, and inventory coordination.
- Integrated **Manufacturing & Production Management** workflows covering production operations, raw-material utilization, equipment records, operational tracking, and coordination between procurement, inventory, and production departments.
- Implemented **Sales Management and business operations workflows**, supporting customer records, sales transactions, automated invoice generation, and synchronization with financial and inventory-related modules.
- Built **Employee Self-Service and Task Management** capabilities for attendance monitoring, leave applications, remote-work requests, payslip access, departmental assignments, and operational task tracking.
- Developed a centralized **Super Admin system** for tenant onboarding, organization management, module enablement, subscription plans, employee capacity limits, billing configurations, and platform-wide administrative control.
- Implemented configurable **enterprise master data and system settings**, covering suppliers, customers, employees, vehicles, drivers, storage tanks, products, chemicals, equipment, and tenant-specific document numbering.
- Supported **cloud-hosted SaaS and on-premises enterprise deployments**, enabling organizations to operate Avora through managed cloud infrastructure or independently hosted internal servers.

Experience

MERN Stack Developer July 2025 – Present
Coding Pixel

* Developing production web applications using React.js, Next.js, TypeScript, JavaScript, Node.js, Express.js, and MongoDB.
* Building responsive and reusable UI components using React Hooks, Redux Toolkit, Context API, and component-based design patterns.
* Translating Figma designs and product requirements into accurate, responsive, and production-ready frontend interfaces.
* Developing and integrating RESTful APIs while collaborating with backend developers to maintain reliable frontend-backend communication and application data flow.
* Implementing Node.js asynchronous programming using Promises and async/await for API requests, backend operations, and application workflows.
* Implementing authentication systems, protected routes, form validation, state management, and dynamic data-driven interfaces.
* Working with MongoDB schemas, queries, aggregations, indexing, and data optimization to support application performance and scalability.
* Developing and maintaining responsive interfaces across desktop, tablet, and mobile devices while resolving cross-browser compatibility issues.
* Using browser DevTools and frontend debugging techniques to diagnose UI, routing, API integration, rendering, and responsiveness issues.
* Working with Docker for development environments and deploying applications through Vercel and cloud-based deployment workflows.
* Working with Git-based CI/CD workflows and deployment pipelines to support application releases and production updates.

* Building and integrating real-time functionality using WebSocket-based communication and Socket.IO where required.
* Using AI-assisted developer tools including Claude AI, Cursor, Codex, Cline, and LLM-based coding workflows to improve implementation and debugging efficiency.

MERN Stack Developer Feb 2024 – June 2025
NODLAYS

* Developed and maintained full-stack web applications using MongoDB, Express.js, React.js, Node.js, JavaScript, and TypeScript.
* Built responsive frontend pages and reusable UI components using React Hooks, state management, HTML, CSS, JavaScript, and React.js.
* Developed and integrated RESTful APIs using Express.js for dynamic data rendering, authentication, form submissions, and application workflows.
* Worked with Node.js asynchronous programming using Promises and async/await for backend operations and API integration.
* Implemented routing, protected pages, form validation, state management, and reusable frontend architecture across multiple web applications.
* Worked with MongoDB schema design, queries, aggregations, indexing, and database optimization for application data management.
* Worked with backend APIs, database operations, and application logic while coordinating frontend and backend functionality.
* Converted UI designs and project requirements into responsive interfaces for desktop, tablet, and mobile devices.
* Applied modular architecture and reusable development patterns to improve code maintainability and application scalability.
* Diagnosed and resolved frontend bugs, browser issues, API integration problems, routing errors, and responsive layout inconsistencies.
* Used browser DevTools to inspect network requests, frontend errors, layout behavior, and application issues.
* Worked with Git, Docker, and modern development workflows for version control, development environments, debugging, and feature development.
* Gained exposure to CI/CD workflows, deployment pipelines, cloud deployments, microservices, and scalable application architecture.
* Collaborated with developers and project teams in an Agile environment to implement features, resolve issues, and deliver application updates.

MERN Stack Intern Nov 2023 – Jan 2024
NODLAYS

* Assisted in developing full-stack applications using MongoDB, Express.js, React, and Node.js.
* Implemented frontend components and connected them with REST APIs and backend services.
* Participated in debugging, testing, asynchronous data handling, and improving application performance.

Education

University of Central Punjab Lahore, Pakistan
Bachelor of Science in Computer Science *2025*

Punjab Group of Colleges Lahore, Pakistan
Intermediate in Computer Science (Physics, Maths, Computer) *2020*

Beaconhouse School System Lahore, Pakistan
Matriculation in Science (Physics, Chemistry, Maths, Computer) *2018*

Certifications

Anthropic Education https://verify.skilljar.com/c/fv3iqq23ewvp
Claude Code in Action *April 2026*