

# AYSHA AREEJ

Lahore, Punjab, Pakistan

+92-337-4765461   ayshaareej71@gmail.com   LinkedIn   <https://portfolio.com/>

## Professional Summary

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Full-stack software engineer with 3+ years of experience building scalable web applications and microservices. Specialized in React.js frontend development and NestJS backend architecture. Proven expertise in designing and implementing complex systems for HRMS, e-commerce, on-demand services, and petroleum industry platforms. Strong problem-solving skills and passion for clean, maintainable code.

## Technical Skills

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**Languages:** JavaScript (ES6+), TypeScript, HTML5, CSS3

**Frontend:** React.js, Redux, Next.js, React Native, Angular (JS/TS), Material UI, Tailwind CSS, Bootstrap, Ant Design, CoreUI, SPA development, Responsive UI/UX

**Backend:** Node.js, NestJS, Express.js, PostgreSQL, MongoDB, Supabase

**Testing:** Jest, React Testing Library (RTL)

**Tools & Platforms:** Git, Swagger, Postman, PgAdmin, Figma, Adobe XD, Agile/Scrum, CI/CD pipelines, Docker, Microservices Architecture, Socket.IO, REST APIs

## Experience

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### Devbox

Lahore, Pakistan

*Software Engineer (Full-Stack Focus)*

Aug 2021 – Present

**Digixvalley (Swift Sub-Project):** Architecting and developing microservices infrastructure using NestJS with 3-4 independent services. Implementing scalable backend solutions for digital transformation initiatives with inter-service communication and data synchronization.

**Fyllup (Armada Oil & Gas Platform):** Engineered petroleum brand management system with location-based petroleum brand selection, dynamic tax calculations based on location and terminal specifications, terminal management, and comprehensive accounting features (debits/credits tracking). Built responsive React frontend with secure NestJS + PostgreSQL backend for oil & gas operations.

**EmployeeHub (HRMS):** Engineered React.js + Redux dashboards for HR operations including employee management, payroll, and reporting. Built scalable REST APIs in NestJS + PostgreSQL with role-based access control (RBAC) and multi-tenant support.

**Real Deal Marketplace:** Developed responsive React SPA for property listings with advanced search filters. Optimized pagination and filtering logic for enhanced performance handling thousands of concurrent users.

**Tractor Online:** Designed React-based B2B marketplace with dynamic filters (make, model, year, price, location). Enhanced user engagement and search capabilities with refined UX/UI.

**Pulse PMS (POS System):** Built comprehensive POS system frontend in React integrated with REST APIs for sales transactions, detailed reporting, and inventory management. Implemented real-time inventory updates.

**Instafixit (On-Demand Services):** Developed mobile-first React UI for booking and tracking services (plumbing, electrical, car repair). Integrated secure NestJS APIs, real-time notifications via Socket.IO, and payment processing. Scaled to support thousands of active users.

**Technocrom:** Delivered responsive website for mobile application services with modern React components and optimized performance.

### Technercia

Sahiwal, Pakistan

*Trainee Software Engineer*

Summer 2019 – 2020

**Hospital Management System:** Built responsive UI with HTML5, CSS3, JavaScript, and Bootstrap for patient management, appointments, and medical records. Later prototyped React conversion for modernization.

**Full-Stack Development:** Assisted in frontend and backend development tasks, gaining comprehensive practical exposure across the complete Software Development Life Cycle (SDLC).

## Key Projects

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### Digixvalley (Swift Sub-Project - Microservices)

*2024 – Present*

**Microservices Architecture:** Architecting and developing 3-4 independent NestJS microservices for modular, scalable backend infrastructure. Each service handles distinct business domains with independent databases.

**Service Communication:** Implementing inter-service communication patterns, API gateways, and event-driven architecture for seamless integration and maintainability.

**Scalability & Performance:** Designing service boundaries to ensure high availability, fault tolerance, and horizontal scalability across microservices.

## Fyllup (Armada Oil & Gas Platform)

2024 – Present

**Petroleum Brand Management System:** Developed comprehensive petroleum brand management system enabling location-based petroleum brand selection with automatic tax calculation based on location and terminal specifications.

**Terminal & Location Management:** Implemented terminal management dashboard with location-based brand availability, inventory tracking, and supply chain management features.

**Financial Accounting Module:** Built complete debits/credits accounting system integrated with petroleum transactions for real-time financial tracking, reconciliation, and reporting. Supports multi-currency transactions.

**Tech Stack:** React.js + Redux frontend with responsive UI, NestJS backend with microservices architecture, PostgreSQL for robust data management and reporting.

## TellBrandz (Brand Review Platform)

2024

**React + Supabase Platform:** Built a comprehensive brand review website allowing users to discover, share, and rate reviews across all types of brands. Implemented real-time data synchronization for live review feeds.

**Database & Backend:** Designed Supabase backend with efficient PostgreSQL schemas for user reviews, ratings, brand profiles, and user authentication. Optimized queries for fast data retrieval.

**User Experience:** Created seamless user experience with intuitive navigation, rating systems, and advanced search/filter capabilities for discovering brands and reviews.

## Instafixit (On-Demand Services Platform)

2023 – 2024

**Mobile-First React UI:** Built responsive booking and live-tracking UI with maps integration. Handled real-time service status updates integrated with NestJS + Socket.IO backend.

**Real-Time Features:** Implemented real-time notifications, service provider tracking, and customer notifications using WebSockets for seamless communication.

**State Management & Performance:** Optimized Redux store architecture for improved performance, reduced memory consumption, and enhanced application stability at scale.

**Scalability:** Successfully scaled platform to support thousands of concurrent active users with optimized API calls and efficient data synchronization.

## Wholesale E-Commerce Platform (B2B Marketplace)

2022 – 2023

**B2B Marketplace Architecture:** Built full-featured React SPA with complex bulk purchasing workflows, vendor dashboards, and admin panels for managing vendors and products.

**Payment Integration:** Integrated Stripe payment gateway for secure transactions, supporting multiple payment methods and recurring billing for vendor subscriptions.

**Vendor Ecosystem:** Supported growing vendor ecosystem with vendor onboarding, product management tools, order management, and commission tracking.

**Performance Optimization:** Implemented lazy loading, code splitting, and advanced caching strategies to handle high traffic and improve user experience.

## Soft Skills

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Strong collaboration and teamwork across cross-functional Agile squads and distributed teams

Excellent communication and problem-solving skills with ability to articulate complex technical concepts

Adaptability and leadership in delivering projects under tight deadlines and changing requirements

Proactive in mentoring junior developers, code reviews, and fostering knowledge sharing culture

Self-motivated learner with passion for staying updated with latest technologies and best practices

## Certifications

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**React Development Certification:** Udemy

**MERN Stack Development Certification:** Udemy

**Data Science Specialization:** Johns Hopkins University

**JavaScript Programming:** UC Davis

**WordPress Development & Freelancing:** Digiskills

**Docker, System Design & Secure Software Development:** DEVBOX

## Education

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**COMSATS University Islamabad**

*Bachelor of Science in Software Engineering*

Islamabad, Pakistan

Sep 2017 – Jul 2021