

AHMED SALAR

Software Engineer

Karachi • +92 311 5499916 • ahmedsalar618@gmail.com • linkedin.com/in/ahmed-salar-272209276 • github.com/ahmedsalar22 • ahmedsalar.vercel.app

Product-focused Software Engineer who owns the full Software Development Life Cycle, from requirement analysis through production deployment, grounded in Object-Oriented Programming and distributed-systems fundamentals. Builds high-performance, horizontally scalable multi-tenant SaaS and enterprise platforms with Next.js, React.js, Node.js, PostgreSQL, and Prisma. Designs for reliability at scale — load balancing, database replication, Redis caching, message queues (Kafka, RabbitMQ), and stateless JWT authentication — weighing trade-offs through the CAP theorem, ACID guarantees, and idempotent API design. Skilled at integrating complex hardware systems, leveraging AI-driven workflows, and shipping Server Side Rendered, SEO-optimized interfaces.

WORK EXPERIENCE

Bright Solutions

01/2026 - Present

Software Engineer

- Resolved usability and scalability bottlenecks in high-traffic enterprise SaaS platforms, directing architecture and UI development end-to-end and applying horizontal and vertical scaling strategies with OOP-driven module design for robust, growth-ready experiences.
- Removed inconsistent data states and rendering delays by engineering global state management and advanced caching with Redux Toolkit and RTK Query, backed by a Redis caching layer for seamless real-time data synchronization.
- Cut API latency and deployment downtime by placing a load balancer across app instances and shipping services on Render for zero-downtime, horizontally scaled releases.
- Strengthened authentication across services with stateless JWT-based auth and Redis-secured session/token storage, enforcing idempotency keys on payment and write-heavy endpoints to block duplicate transactions on retry.

Hnh Soft Tech Solutions

06/2024 - 02/2025

Front End Developer

- Built responsive, mobile-first user interfaces with React.js, Tailwind CSS, and Material UI.
- Streamlined data handling and asynchronous requests by integrating REST APIs via Axios and RTK Query.
- Upheld clean code standards and optimized frontend asset delivery, lifting application performance and technical SEO rankings.

CompanionLink Australia

Freelance Full Stack Developer

- Designed and shipped a production-ready, full-stack international nursing web application with Next.js, TypeScript, Node.js, Express.js, and MongoDB, using SQL for reporting queries and MongoDB Atlas for managed, replicated data storage.

EDUCATION

Bachelor of Science in Software Engineering

Iqra University

CERTIFICATIONS

- Full Stack Web Development — Saylani Mass IT Training (SMIT)
- Advanced React and Redux Toolkit — Udemy
- Node.js and Express.js Mastery — Coursera
- MongoDB for Developers — MongoDB University

PROJECTS

Bpo Website 08/2026 - 08/2026

Bright Solutions

- Built a modern, responsive BPO agency website for Bright Solutions with Next.js, TypeScript, and Tailwind CSS, delivering premium UI/UX through responsive layouts, interactive components, scroll-based animations, performance tuning, and SEO-

friendly architecture. Shaped sections for services, solutions, pricing, integrations, business metrics, and conversion-focused CTAs while keeping accessibility and Core Web Vitals strong.

7amtechnologies Business 3D Website 06/2026 - 06/2026

7amtechnologies

- Built a premium 3D business website for 7AM Technologies with Next.js, React Three Fiber, Three.js, TypeScript, Tailwind CSS, and Framer Motion, delivering immersive interactive 3D experiences, custom animations, responsive layouts, and scroll-driven interactions, deployed behind a load balancer on Render while tuning rendering performance, responsiveness, SEO, and accessibility. Website: www.7amtechnologies.com

Asan Karobar Multi-Tenant POS Platform

Bright Solutions

- Engineered and deployed a scalable SaaS-based POS platform with Next.js, Node.js, Express.js, PostgreSQL (via Prisma ORM) and MongoDB, now running across multiple marts and retail shops with product/category management, inventory tracking, barcode scanning and validation, sales and payment workflows, automated invoice generation, and role-based shopkeeper/staff access.
- Scaled the platform horizontally behind a load balancer with a read replica database for reporting and analytics queries, and added a Redis caching layer for high-frequency inventory and pricing lookups to cut database load.
- Wrapped invoice and payment writes in ACID-compliant PostgreSQL transactions with idempotency keys on payment endpoints to guarantee exactly-once processing on retries, and used Redux Toolkit with RTK Query for efficient state and API management.
- Link: app.asankarobar.biz

ProCheckGym Enterprise Gym Management

Bright Solutions

- Built and deployed a production-grade SaaS platform with Node.js, Express.js, PostgreSQL, Prisma, React, Redux Toolkit, and RTK Query, now serving multiple gyms with membership management, subscription billing, attendance tracking, and role-based access control.
- Rolled out stateless JWT authentication backed by Redis for secure, horizontally scalable session/token validation across centralized administrative dashboards, and applied ACID transactions to keep subscription billing consistent.

Attendyfy

Bright Solutions

- Built and maintained Attendify, a production HR management SaaS platform on Next.js, with dedicated CEO, HR, and Employee panels under role-based access control.
- Integrated ZKT biometric devices for automated employee attendance tracking, streaming attendance events through a RabbitMQ message queue for reliable, asynchronous processing across factories and offices, with idempotent event handlers to keep duplicate attendance records off the books on device retries.
- Delivered employee management, attendance workflows, bulk employee import, and API-driven data management with Redux Toolkit and RTK Query. Now running across multiple factories and offices. attendyfy.com

eZBuy Micro Services Platform

- Architected a highly scalable e-commerce application on microservices architecture and distributed systems principles, with services communicating asynchronously over Kafka for event streaming (orders, inventory, notifications) and RabbitMQ for task queues.
- Designed each service to scale independently — horizontally behind a load balancer and vertically where warranted — weighing per-service consistency/availability trade-offs via the CAP theorem, and pairing PostgreSQL (with read replicas) for transactional, ACID-sensitive services against MongoDB Atlas for flexible, replicated catalog data.

Starline Insurance

Texas, USA

- Architected a high-conversion platform for a commercial auto and trucking insurance company.
- Built in Next.js with Server Side Rendering and advanced technical SEO.
- Integrated an intelligent chatbot to automate client inquiries and streamline lead generation, maximizing regional search visibility.

AI B2B Platforms

- Built frontend interfaces for an AI-powered B2B lead generation tool and a promotional platform showcasing AI software integrations.

High Conversion Marketing Sites

- Launched optimized corporate websites and landing pages for Bright Solutions, Asan Karobar, and ProCheckGym to win B2B clientele.

Independent UI Development

- Delivered responsive frontend interfaces for industry clients including AfrikanBBQ, AAW Restaurant, Social Capital, EdTech, and a Real Estate web application.

SKILLS

Languages & Frameworks JavaScript, TypeScript, Express.js, Material UI, Next.js, Node.js, React.js, Tailwind CSS, OOP (Object-Oriented Programming)

Databases PostgreSQL, MongoDB, MongoDB Atlas, SQL, NeonDB, Prisma ORM, Redis, Replica Databases

System Design & Architecture Distributed Systems, Microservices Architecture, Horizontal & Vertical Scaling, Load Balancing, CAP Theorem, ACID Transactions, Idempotency, Multi-tenant SaaS

Messaging & Queues Kafka, RabbitMQ

Auth & Security JWT (JSON Web Tokens), Stateless Authentication, Redis-Secured Session Auth

Deployment & DevOps Render, RESTful APIs, CI/CD-friendly SDLC

Workflow & Integrations AI Workflows (GitHub Copilot, Google Antigravity, Stitch MCP), Git and GitHub, Postman, ZKTeco Biometric Hardware