KHAWAJA MUHAMMAD MUSHOOD

Software Engineer

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Summary

Accomplished software engineer with experience in full-stack development using React, React Native, Node.js, and Nest.js. Proven success in delivering scalable web and mobile applications, optimizing API performance by 30%, and ensuring security and compliance with JWT authentication and HIPAA standards. Skilled in database design with Prisma and PostgreSQL, as well as deploying production-ready solutions on AWS. Dedicated to driving innovation and efficiency through robust coding practices and automation in CI/CD.

Experience

Texagon
Lahore, Pakistan

Software Engineer
08/2025 - Present

- Developed Full-Stack web applications using react (frontend) and node.js with nest.js (backend).
- Implemented RESTful APIs improving data retrieval speed by 30% using Redis cache
- Successfully delivered 2 projects on time by collaborating with cross-functional teams.
- Optimized front-end code, enhancing user experience and reducing load times by 5%
- Integrated Supabase services, increasing app reliability and scalability by 10%

CodetoKloud
Lahore, Pakistan

Associate Web Developer
04/2025 - 08/2025

- Developed full-stack web applications using React and Node.js with Express, implementing jwt-based authentication to secure user sessions.
- Utilized PostgreSQL and Prisma ORM to design efficient, scalable database models while ensuring HIPAA compliance with secure coding practices.
- Built a RESTful API architecture on the frontend using Redux Toolkit, implementing smart caching strategies to enhance application performance.
- Created a React Native mobile app from scratch, integrating JWT for authentication, and using Context API for global state management.
- Implemented a scalable Axios setup for token refreshing and centralized error handling, providing a consistent API structure.

Arbisoft
Lahore, Pakistan

Software Engineer Intern
07/2024 - 09/2024

- Implemented and integrated mapping solutions within mobile applications.
- Developed authentication mechanisms to secure user access.
- Configured and managed push notification services.
- Engaged in database management, query optimization, and interaction using Firebase Realtime Database.
- Applied state management principles utilizing Redux and Redux Toolkit.
- Conducted snapshot and unit testing to ensure code quality and reliability using Jest.
- Utilized Git and GitHub for version control and collaborative development.
- Automated build processes and continuous integration using CircleCI.
- Managed side effects in applications using Redux Sagas.
- Utilized Context API to manage and share state across the component tree without prop drilling.
- Designed and implemented dynamic styles and themes using Styled Components.
- Developed and integrated animations to enhance user experience.
- Utilized package managers such as npm and Yarn for dependency management.
- Established automated workflows to streamline development processes.

Key Achievements

💎 **Enhanced App Performance**
Increased app performance by 25% using intelligent caching strategies with Redux Toolkit.

💎 **Maintained HIPAA Compliance**
Developed secure web applications, ensuring HIPAA compliance for 100% of projects.

💎 **Streamlined Deployment Process**
Automated workflows, reducing deployment time by 60% with CircleCI integration.

💎 **Template Development Impact**
Built Express.js template, reducing setup by 60% using pre-configured schemas.

Education

University of Management and Technology - UMT

01/2021 - 12/2025

Bachelor of Science - BS, Computer Science

Certification

Supervised Machine Learning: Regression and Classification — Coursera

Projects

Central Board Wellness Center

CodetoKloud

https://centerboardwellnesscenter.com/

04/2025 - 08/2025

Worked with a US-based client to build a secure and scalable web application using React and Express. Implemented advanced security features, optimized API performance, and deployed the full stack on AWS with a production-ready architecture.

- Developed the frontend using React with Material UI and Tailwind CSS for fast, consistent UI development.
- Built a secure Express.js backend with rate-limiting, token-based authentication, and protected API endpoints.
- Used Prisma ORM with PostgreSQL, hosted on AWS RDS, for reliable and optimized database operations.
- Deployed the full application on AWS EC2 using Nginx as a reverse proxy and PM2 for process management.
- Implemented RTK Query on the frontend to enable efficient caching, reduce API calls, and improve overall user experience.

Admin Central Board Wellness Center

CodetoKloud

https://admin.centerboardwellnesscenter.com/

04/2025 - 08/2025

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Express-Backend-Template

This open-source project standardizes project setup.

- Developed a reusable Express.js backend template to streamline the creation of robust, scalable REST APIs.
- Standardized project setup with pre-configured linters, a modular folder structure, and a unified response utility to ensure consistent API output across endpoints.
- Integrated JWT-based authentication for secure user management.
- Created a mail-sending utility for seamless email integration.
- Utilized Prisma ORM for effortless connectivity to relational databases such as PostgreSQL, MySQL, and SQLite.
- Automated setup tasks with Prisma schemas and database connections, reducing development time by 60%.
- Designed with flexibility in mind to support customization for diverse project requirements while adhering to modern security and coding standards.