

# MUHAMMAD WALEED TANVEER

Lahore, Pakistan

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## Summary

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Full-stack engineer with production experience shipping scalable web apps on the React / Node.js / Express / PostgreSQL stack. Strong on backend logic, REST API design, and relational database architecture (schema from scratch), with a solid foundation in data structures, algorithms, and client-server architecture. Have owned features end to end for live, real-user products and worked directly with overseas clients. Available immediately.

## Experience

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### Associate Software Engineer

July 2025 – Present

*Connectiv.us*

*Lahore, Pakistan*

- Designed and built backend REST APIs with Node.js and Express, architecting database schemas from scratch across relational (PostgreSQL/Supabase) and MongoDB stores to power scalable, production full-stack web and mobile applications.
- Implemented secure server-side logic including JWT authentication, role-based access control (RBAC), rate limiting, and structured logging so services run reliably under real production traffic.
- Built and maintained CI/CD pipelines with GitHub Actions and managed production deployments, delivering high-availability, zero-downtime releases and reducing manual deployment errors.
- Collaborated directly with product owners, QA, and overseas clients, participating in code reviews and optimizing application performance, scalability, and security across the stack.

## Projects

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### vCure.app (Ilaaj) | *Next.js, Node.js, Express, MongoDB, Microservices, AWS (S3, Lambda), CI/CD* 2025

- Delivered a production healthcare platform serving real patients and doctors across iOS, Android, and web by building cross-platform React Native apps and Next.js portals on a Node.js/Express microservices API.
- Kept services reliable under production traffic and prevented unauthorized access by implementing REST APIs with JWT authentication, RBAC, rate limiting, and structured logging across the backend.
- Enabled safe, paperless prescribing by engineering a secure E-Prescribing module with CDSS drug-safety checks and 2FA digital signing, generating documents via AWS Lambda and storing them on S3.
- Increased completed bookings by integrating online payments (SafePay/Stripe) and the WhatsApp Business API for appointment confirmations, reminders, and prescription delivery.

### Corsult – Hospital Management System | *Next.js, TypeScript, Node.js, PostgreSQL (Supabase)* 2025

- Shipped a hospital management system now live across 6 branches of a US-based hospital by building four role-based panels (patient, employee, nurse/RN, admin), each with its own workflows and permissions.
- Kept data consistent across panels at scale by designing the relational schema from scratch and the backend logic for appointment booking, employee management, and automated reporting on PostgreSQL (Supabase).
- Sped up internal coordination for non-technical medical staff by implementing a real-time chat system over WebSockets.

### Silverleaf ENT | *Next.js, Node.js, Express, MongoDB, Stripe, Clover POS* 2025

- Enabled flexible B2B pricing by engineering an RBAC system that let sellers dynamically assign custom price tiers for wholesalers, distributors, and retail customers.
- Achieved real-time inventory and sales parity by synchronizing online and offline transactions through a dual Stripe + Clover POS integration, backed by a Cloudfare media pipeline for fast asset delivery.

## Technical Skills

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**Languages:** JavaScript, TypeScript, Python, C/C++, SQL, HTML/CSS, Java/Kotlin

**Backend:** Node.js, Express.js, REST APIs, Microservices, JWT Auth, RBAC, Rate Limiting, Socket.IO, Cron Jobs

**Databases:** PostgreSQL, MySQL, MongoDB, Supabase **ORM/Query:** Prisma, Mongoose

**Frontend:** React, React Native, Next.js, Tailwind CSS

**DevOps & Tools:** Git, GitHub, GitHub Actions, CI/CD, Docker, AWS (S3, Lambda), VPS/Linux, VS Code

**Concepts:** Data Structures & Algorithms, Client-Server Architecture, SDLC, Performance Optimization, Security

## Education

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### FAST NUCES

*Bachelor of Science in Computer Science*

2022 – 2026

*Lahore, Pakistan*

## Certifications

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**AWS Cloud Foundations** – Amazon Web Services