Talha Ahmed

Senior Software Engineer · React/TypeScript, Node.js & Python/FastAPI

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PROFILE

Senior Software Engineer, 7 years building production web applications end-to-end — React/TypeScript and Node.js across subscription, billing, order management and customer communication systems, extended into a full Python/FastAPI backend (order-to-subscription flow, JWT auth, payment webhooks) on a personal project. Built interfaces now live across 7 telecom operators, from prepaid to 5G. Modernises legacy applications and cuts delivery time with AI-assisted workflows, without trading away quality.

SKILLS

Frontend	React.js, JavaScript, TypeScript, Next.js, Redux Toolkit, HTML5, CSS3, Tailwind CSS, Material UI
Testing & Quality	Jest, pytest, SonarQube
Backend & Infrastructure	Node.js, Express.js, Python, FastAPI, Keycloak, Jenkins, Git, MySQL, PostgreSQL, Redis, Vercel, Strapi, Docker
Cloud	GCP

EXPERIENCE

Senior Software Engineer (Consultant) · Qvantel (Optiva) 03/2022 – Present

Remote from Pakistan (Ireland-based client) · Business solutions for MVNOs and Telcos

- Shipped a configurable Customer Management platform now live across 7 telecom operators, spanning prepaid, postpaid and 5G products.
- Designed a pluggable, JSON-driven workflow engine for 5G subscription creation, dynamically rendering each step to call a different backend system — charging, inventory, order creation and billing via card payment or voucher redemption.
- Built configurable customer journeys, dashboards, pricing flows and operator-specific theming supporting multiple subscription models and add-on offerings.
- Integrated the platform with enterprise BSS, Order Management and Keycloak authentication for secure, end-to-end provisioning and charging workflows.
- Cut feature delivery time by ~2x by adopting AI-assisted tools (Claude, GitHub Copilot) across implementation, testing and code review.
- Maintained 90%+ code coverage with zero SonarQube issues through end-to-end feature ownership and automated testing.
- Mentored 3 new joiners and collaborated cross-functionally with product, design and solution teams through Agile development.

EXPERIENCE

Software Engineer · Evamp & Saanga
07/2021 – 03/2022

Islamabad, Pakistan · On-site

- Built the Salam (Saudi telecom operator) Dealer Management Portal from scratch with React, Redux and Material UI.
- Delivered dealer onboarding and registration, a SIM sales & activation dashboard, and multi-language support.
- Worked directly with the client to scope new features and resolve bugs throughout development and UAT.
- Built customer-facing interfaces for further telecom clients including Maroctel and Jazz B2B, with on-call support for production fixes.

Software Engineer · Elixir Technologies
07/2019 – 07/2021

Islamabad, Pakistan · On-site

- Developed and maintained Tango+, a cloud-based Customer Communications Management platform, within an Agile Scrum team.
- Migrated legacy Adobe Flash components to responsive HTML5/React interfaces, eliminating plugin dependencies ahead of Flash's end-of-life.
- Cut initial load time by ~20–30% and eliminated plugin-related crashes, delivering a faster, more stable cross-browser experience.
- Shipped production hotfixes and resolved customer-reported issues, maintaining platform stability throughout the migration.

PROJECTS

TelcoFlow · Personal Project
2026

Telecom subscription platform · Next.js/TypeScript + Python/FastAPI

- Built a telecom data-plan subscription platform to apply BSS domain experience (order lifecycles, subscription state, billing) to a Python/FastAPI backend, extending existing React/Node skills into Python.
- Modelled a production-style order → payment → subscription flow behind an abstracted payment gateway, with idempotent, signed webhook handling and explicit state machines.
- Implemented Argon2 password hashing, httpOnly JWT auth and role-gated admin routes, with Pydantic schema validation throughout.
- Covered both frontend and backend with automated tests (pytest, Vitest) running in CI on every pull request.

EDUCATION

BSc Software Engineering · Riphah International University
2015 – 2019

Islamabad, Pakistan · CGPA 3.81 / 4.0