

Muhammad Salman Asif

Senior Software Engineer

Karachi, Pakistan · Al Khobar, Saudi Arabia | +92 332 1318363 · +966 56 379 1037 | salmanasif36@gmail.com | [LinkedIn](#) | [GitHub](#)

PROFESSIONAL SUMMARY

Senior Software Engineer with more than 5 years of experience delivering enterprise web, mobile, and integration-heavy products across privacy, data security, SaaS, and startup environments. Frontend-heavy by background, with strong cross-stack ownership across Vue 2, React, React Native, TypeScript/JavaScript, Go- and Python-backed services, API contracts, CI/CD, Docker, and Kubernetes. Known for isolating root causes in complex production failures, modernizing legacy systems without destabilizing delivery, and turning ambiguous product requirements into maintainable engineering solutions.

CORE SKILLS

Frontend & Mobile: React.js, Vue.js 2, React Native, TypeScript, JavaScript, HTML5, CSS3, Responsive UI, Component Architecture

State & Data: Vuex, Redux, Redux Saga, Redux Thunk, React Query, REST APIs, Optimistic UI, Async State, Pagination, Filtering

Backend & Services: Go, Python, REST API design/integration, service contracts, request/response schemas, payload debugging, error handling; Node.js, Express.js/NestJS (working knowledge)

Build & Platform: Rsbuild, Rspack, Webpack, Vite, Docker, Kubernetes, CI/CD, Microsoft Azure, Git, environment validation, release verification

Engineering: Technical leadership, team coordination, root-cause analysis, production debugging, scalable architecture, performance optimization, code reviews, mentoring, technical problem solving, Agile delivery

PROFESSIONAL EXPERIENCE

Senior Software Engineer | Veeam Software (Securiti AI)

Dec 2025 - Present

Al Khobar, Saudi Arabia

- Own engineering work across enterprise privacy, data security, governance, and AI-trust workflows where Vue/Vuex clients depend on Go and Python backend services, asynchronous jobs, permissions, and integration-specific state.
- Provide senior-level technical leadership across feature delivery: break ambiguous requirements into implementation plans, coordinate frontend/backend/QA dependencies, review code, guide engineers through difficult edge cases, and keep releases moving without trading away maintainability.
- Resolved cross-stack production defects by tracing failures from UI state and browser/network behavior into API payloads and Go/Python service responses; fixed the correct layer - frontend state, contract mapping, backend validation, or service behavior - rather than adding UI-only workarounds.
- Addressed stale and inconsistent status behavior in long-running scan/integration workflows by normalizing service states, tightening Vuex update paths, and making loading, cancellation, retry, failure, and terminal states explicit and deterministic.
- Improved delivery confidence around pipeline and deployment changes by validating builds across Docker/Kubernetes environments, identifying environment-specific regressions, and supporting smoke verification and release troubleshooting before production rollout.

Senior Software Engineer | Securiti.ai

Sep 2024 - Nov 2025

Karachi, Pakistan

- Owned and led frontend workstreams for enterprise connector and data-platform features, translating product requirements into technical tasks, coordinating Go/Python backend and QA dependencies, reviewing implementation decisions, mentoring engineers, and driving features through release.
- Re-architected connector configuration from connector-specific hard-coded forms into a metadata-driven UI engine. Go/Python services supplied JSON field metadata - types, defaults, validation, dependencies, visibility rules, and then/else conditions - while the Vue layer interpreted the schema to render and validate forms dynamically, reducing duplicated connector logic and making new connector variants safer to ship.
- Solved schema drift and partial-metadata failures by normalizing backend configuration payloads before rendering, applying backward-compatible defaults, centralizing condition evaluation, and mapping service validation errors into predictable field-level UI behavior instead of scattering connector-specific fixes across components.
- Solved legacy build friction by leading a Vue 2 to Rsbuild/Rspack migration proof of concept around the Webpack 4 application; validated compatibility, async imports, routing, asset handling, and runtime behavior to create a lower-risk modernization path.

- Fixed race conditions and slow-feeling API workflows by introducing optimistic UI where safe, explicit request states, controlled state synchronization, and predictable rollback/error handling instead of blocking the interface on every backend round trip.
- Prevented state leakage across multi-instance provider screens by isolating instance state and applying route-aware remount/cache strategies, making complex configuration flows more predictable and easier to maintain.
- Investigated production defects across OAuth/connect flows, permissions, dynamic forms, filters, routing, and integrations by reproducing the issue, tracing the complete UI-to-Go/Python service boundary, fixing the actual failure point, and validating regressions before release.

Software Development Engineer | Securiti.ai

Nov 2022 - Sep 2024

Karachi, Pakistan

- Delivered web-stack features for cloud connectors (GCP/AWS/Azure), discovery and metadata scan status/cancellation, data catalog filtering, permissions/scope, audit export, lineage-related workflows, and configuration-heavy enterprise screens.
- Worked directly with Go/Python backend services and engineers to align API contracts, pagination/filter semantics, status enums, permission behavior, validation errors, and payload schemas; added normalization/adapters when raw service responses needed a stable UI-facing model.
- Made API-driven screens resilient to real-world failures by treating loading, empty, partial, retry, permission-denied, and backend-error states as first-class product behavior rather than implementing only the happy path.
- Fixed difficult bugs by tracing the complete execution path across Vue/Vuex state, network requests, Go/Python responses, browser behavior, and environment-specific conditions, then validating the solution through regression checks and release support.

Software Engineer | KoderLabs

May 2021 - Nov 2022

Karachi, Pakistan

- Delivered web and mobile product features using React, React Native, Ionic, Redux, React Query, Ant Design, Material UI, Less/Sass, JavaScript, and REST APIs across multiple client domains.
- Designed reusable hooks, UI components, and shared patterns to reduce duplicate implementation work and keep behavior consistent across multiple screens and projects.
- Improved runtime performance through memoization, lazy loading, cleaner state ownership, optimized list rendering, and code splitting where it produced meaningful user-facing benefit.
- Integrated business workflows with backend APIs, handled authentication and error states, debugged response/integration issues, and supported stable client-facing releases.
- Coordinated tasks, clarified requirements with business analysts, reviewed code, and guided implementation decisions to convert changing client needs into maintainable product features.

Software Engineer | Impala Energy

Dec 2020 - May 2021

Remote - Canada Startup

- Built responsive React interfaces and reusable components for product workflows, combining clean UI implementation with reliable API integration in a fast-moving startup environment.
- Worked with product owners to break down requirements, improve user flows, troubleshoot defects, and deliver iterations quickly without sacrificing maintainability.
- Introduced linting and formatting practices that improved consistency and reduced avoidable frontend defects during collaborative development.

Software Engineer Intern | InApp Solutions

Aug 2020 - Oct 2020

Karachi, Pakistan

- Integrated web application screens with REST APIs, contributed UI improvements, and built practical experience in debugging frontend/backend integration issues and production-oriented software development.

SELECTED ENGINEERING PROJECTS

Securiti Enterprise Platform: Worked across privacy and data-security workflows with Vue 2/Vuex clients and Go/Python services. Engineering work included dynamic configuration, permissions, scan/status lifecycle handling, optimistic UI behavior, API normalization, production debugging, and build modernization.

Metadata-Driven Connector Architecture: Converted configuration-heavy GCP/AWS/Azure-style connector screens from hard-coded forms into schema-driven workflows. Go/Python services returned JSON metadata for fields, defaults, validation, dependencies, visibility and then/else rules; the Vue renderer interpreted the contract into reusable UI behavior, while normalization protected the product from partial or version-skewed payloads.

Provider Multi-Instance Architecture: Solved shared-state leakage and stale-view problems in multi-instance provider screens by separating instance-level state, controlling component lifecycle through route-aware keys/remounts, and preserving only the cache that was safe to reuse.

Build & Delivery Modernization: Led Rsbuild/Rspack compatibility work around a legacy Vue 2/Webpack 4 codebase. Validated async imports, routes, assets, development/runtime behavior, and deployment compatibility while supporting CI/CD, Docker/Kubernetes checks, regression fixes, and release verification.

Data Discovery & Catalog Workflows: Implemented and debugged metadata scan status/cancellation, filtering, scope/permissions, export and lineage-related experiences. Normalized backend states and error paths so long-running operations remained understandable and recoverable in the UI.

CargoBarn: React Native logistics product with state-managed screens, responsive layouts, API-backed workflows, and reusable mobile UI patterns.

Halal Connection: Community/business product with responsive frontend flows, reusable components, API integration, and user-facing workflow implementation.

ADDITIONAL PRODUCT EXPERIENCE

The Obituary App, Spirits of Speed, Parent Pass App, Lead Me, USDFI, Task-Fox, Connect, Optimum, and customer/truck workflows.

ENGINEERING STRENGTHS

Technical Leadership: Own workstreams from requirement breakdown through implementation and release; coordinate frontend, Go/Python backend, QA and product dependencies; review code, mentor engineers, and keep solutions simple enough to maintain.

Legacy Modernization: Modernize build and frontend architecture incrementally, validating runtime compatibility and release risk instead of relying on large rewrite-only approaches.

Cross-Stack Debugging: Trace defects through client state, browser/network behavior, REST contracts, Go/Python service responses, permissions, and deployment environments to fix the actual failure point.

Async Product Workflows: Design explicit loading, retry, cancellation, error, partial-success, and terminal states for long-running backend operations so UI behavior remains deterministic.

Release Engineering: Validate build and deployment behavior across CI/CD, Docker, Kubernetes, and environment-specific configurations; support regression checks and production rollout troubleshooting.

EDUCATION

BS Software Engineering | Sir Syed University of Engineering and Technology

Jan 2017 - Dec 2020 | Karachi, Pakistan

LANGUAGES

English | Urdu