Asif Rahman

PRINCIPAL SOFTWARE ENGINEER

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Professional Summary

Principal Software Engineer with **20+ years** building cross-platform web architecture and developer experience for fintech, enterprise SaaS, and identity governance products. Unified fragmented platforms into scalable monorepos, optimized CI/CD workflows across global teams, and built high-performance UI systems used by **50+ engineers**. Known for aligning technical strategy with business priorities and building consensus across large, cross-functional engineering organizations. Current focus: AI-enabled engineering, including **Shipmate**, an internal AI-assisted engineering harness, and SailPoint's org-wide agent development platform.

Core Competencies

- **Platform & Front-End Architecture:** System-level architecture, scalable **monorepos**, and modular front-end/microfrontend ecosystems. Built **design systems** with cross-platform cohesion across web, iOS, and Android, plus reusable, performant component architectures that hold up at organizational scale.
- **Developer Experience & AI Enablement:** Creator of custom DevEx tooling and paved paths, including **Shipmate**, an internal AI-assisted engineering harness, and an org-wide agent development platform. Skilled in telemetry, observability, and AI tool governance (Cursor, Claude Code, GitHub Copilot) that raise velocity without sacrificing quality.
- **Cloud, Infra & CI/CD:** Proficient across AWS, Azure, and GCP, with hands-on expertise in infrastructure-as-code (Terraform, CloudFormation), CI/CD pipeline design, and containerization/orchestration (Docker, Kubernetes). Owns the full path from local development through production infrastructure for distributed, multi-team systems.
- **Leadership & Vision:** Aligns technical vision and execution across functions, mentoring engineers at every level. Guides architecture governance and best-practice adoption org-wide, turning ambiguous, cross-functional priorities into concrete, achievable technical roadmaps.

Professional Experience

SailPoint Technologies

Mar 2024 – Present

Principal Engineer - AI Ops & Enablement / UI Platform Domain Lead

- Promoted to **Principal Engineer**, leading AI Ops and Enablement across all of Engineering while directly owning UI Platform Engineering and Design System tooling and modernization.
- Created **Shipmate**, an internal AI-assisted engineering harness used org-wide to accelerate development velocity while keeping AI tool usage cost-effective and consistent across teams.
- Contributing to SailPoint's internal **agent development platform**, extending agentic engineering workflows and best practices beyond the UI org and across the broader Engineering organization.
- Led front-end platform strategy for SailPoint's identity governance suite, migrating from **30+ fragmented frontend repositories** with complex version management and slow release cycles to a unified **Nx monorepo** with automated code mods, standardized workflows, and centralized dependency management while minimizing disruption to delivery teams.
- Designed and implemented new CI/CD pipelines with **custom reporting and actionable notifications**, reducing build and deploy times by **~50%** and improving troubleshooting efficiency.
- Developed a highly configurable, **drop-in** replacement datatable implementation that enabled rapid delivery of long-awaited customer features such as user preference and state persistence, using **local-first** state

management and sync across microfrontends. The solution had to satisfy dozens of product-specific requirements across the suite, cutting the original time and capacity estimate for the project well below plan.

- Drove **Design System** modernization and tooling initiatives, including shared UI component development and custom **Figma plugins/integrations** to keep design and code in sync across the frontend org.

Block Inc. (Cash App) Nov 2021 – Mar 2024
Software Engineer (L7 IC) - Cash OS Web / Cash Web Platform

- Technical lead for **OS Web** (Cash App's Web Platform team), providing all Cash Web Teams with core platform level libraries, e.g. web design system components, centralized i18n and observability tooling, monorepo support and governance, and other developer tools, e.g. testing and automation plugins for consistent and reliable visual regression testing.
- Kickstarted the **cash-design-system** repo, the first cross-platform source of truth for design tokens and primitives, automating generation of semantically versioned web, iOS, and Android packages and artifacts. This eliminated drift across client platforms and simplified design updates across all product surfaces during the rollout of **Arcade**, Cash App's design language refresh.
- Led front-end strategy for migrating high-traffic web experiences (e.g., CashTags, Receipts) from Ember to React, introducing SSR and React Server Components to improve perceived performance while preserving existing deployment flows while hardening the modern web platform ecosystem our team was responsible for.
- Developed an i18n AST parser and extraction workflow that simplified the management of localized strings during development. Also collaborated cross functionally to help bootstrap other teams needing to integrate with our centralized Globalization org via CI/CD scripts that automated string submission and retrieval via pull requests.
- Developed a Webpack plugin to ensure optimal tree-shaking configuration, reducing client side bundle sizes for all web teams without any additional developer effort and preventing misconfigurations that were causing performance regressions.

UKG Inc. Jun 2021 – Nov 2021
Sr. Principal Architect

- Led UI unification strategy post-merger with Kronos, collaborating with numerous cross-functional teams under an aggressive 180-day timeline to integrate the product offerings of both organizations into a single experience via the new UKG Mobile app, consistently advocating for and delivering the best possible user experience.
- Collaborated with IAM teams to unify cross-product authentication across identity providers, aligning technical vision and user experience across the suite.

Newfold Digital / Bluehost Nov 2020 – Nov 2021
Principal Staff Engineer

- Guided migration of a large React monolith into a microfrontend architecture using Webpack Module Federation and Nx tooling.
- Designed unification strategy post-merger, combining offerings from legacy orgs under a federated frontend model.
- Served on the Technical Leadership Team, providing guidance and mentorship to Bluehost's frontend teams and establishing technical direction for their migration from a monolithic architecture to microservices and event-driven paradigms.

Ultimate Software / UKG Jan 2012 – Jun 2021
Sr. Software Architect & Earlier Roles

- Architected the company's first mobile app, which became the foundation for a modern write-once-deploy-everywhere frontend monorepo. The libraries developed for this ecosystem allowed teams to build Angular features once and deploy them across legacy web, modern web, and native mobile apps, intelligently tailoring the experience to each device's context and capabilities.
- Designed and implemented a secure mobile authentication solution using custom Cordova plugins to meet stringent HR/HCM security and regulatory requirements. Used hardware-backed secure storage to encrypt sensitive PII data at rest, and introduced a step-up authentication model enabling biometric login (Touch ID/Face ID) for most functions while requiring multi-factor challenges for sensitive workflows, balancing usability with regulatory compliance.
- Engineered a custom JavaScript-based Mobile Org Chart UI engine capable of rendering and navigating thousands of employee records with smooth, animated touch interactions at 60 fps, optimized to run on a wide range of mobile devices dating back to Android 4.0.
- Served as Software Architect for the Product Experience domain, overseeing the frontend platform and unified services that merged multiple generations of solutions into cohesive experiences like unified inbox and navigation.
- Earlier roles included serving as team lead and iteration manager for the Architecture Refactoring Team, worked on major projects like Platform Configurability / Rules engine, and as a Technical UX Engineer creating prototypes for the companies next-generation software and moonshot concepts.

Consulting & Earlier Career 2003 – 2012
Various Roles

- **XS Web Solutions Corp** - President: Delivered architecture consulting, cloud-native migrations, CI/CD automation, and DevOps tooling for SMBs/startups.
- **SellYourGold.com** - Senior Developer/DBA: Built secure PHP MVC-backed storefronts, CRM, reporting, and affiliate tracking systems.
- **Yadio.com / DemandX** - Web Developer: Created embeddable video players with affiliate ad logic and ACL-driven CMS.

Education

Florida Atlantic University 2013
M.S., Computer Science Boca Raton, Florida

- Thesis on 'Mobile Visual Search'
- Graduate studies sponsored by SNMREC/COET research grant
- Published paper for IMSA 2011 titled 'A Web-based Video Library and Annotation Framework for Marine Biology Surveys'

Florida Atlantic University 2009
B.S., Computer Science Boca Raton, Florida

Professional and personal references furnished upon request.

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