

Tanvir Aslam Mohammed

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SUMMARY

Staff-level Frontend Engineer and Technical Lead with 12+ years of experience building frontend platforms, developer infrastructure, and enterprise applications across Amazon and enterprise SaaS organizations. Led platform modernization initiatives supporting 140+ engineers across 10+ teams, including microfrontend architectures, platform services, TypeScript migrations, and developer tooling. Reduced release cycles from 1 week to 4 hours and built tooling adopted across 400+ code packages.

EXPERIENCE

Senior Frontend Engineer / Tech Lead

Amazon Publisher Services

October 2022 – Present, Palo Alto, CA

- Led frontend platform architecture initiatives across a 10+ team organization supporting 140+ engineers.
- Drove adoption of a federated microfrontend platform enabling independent deployments and decentralized ownership.
- Proposed and established a dedicated Frontend Platform Team focused on developer infrastructure and modernization initiatives.
- Architected shared platform services including authentication, API gateway, feature flags, logging, RBAC, and shared shell/layout systems.
- Led migration of 200K+ lines of code from JavaScript to TypeScript across 10 engineering teams.
- Built internal CLI tooling for infrastructure setup, CI/CD configuration, testing, and application bootstrapping.
- Reduced worst-case release cycles from 1 week to approximately 4 hours through platform modernization efforts.
- Built code review tooling adopted across 400+ code packages to enforce engineering standards at scale.
- Led development of a greenfield B2B advertising workflow platform supporting internal and external users.
- Conducted 200+ technical interviews and mentored engineers across frontend architecture and platform engineering initiatives.

Front End Engineer II

Amazon Publisher Services

March 2019 – October 2022, Palo Alto, CA

- Founded frontend architecture initiatives for Amazon's Video Ad Server platform and APS Streaming TV and Audio applications.
- Designed and developed the Catalyst microfrontend framework powering APS account management applications.
- Served as a founding contributor to the Atmos Design System with reusable component architecture and accessibility support.
- Led workflow automation initiatives reducing operational effort for account managers by approximately 70%.
- Built scalable reporting workflows integrating petabyte-scale ad exchange datasets for automated publisher payment reporting.

Front End Engineer / Software Development Engineer / Member of Technical Staff

ZL Technologies

March 2013 – March 2019, Milpitas, CA

- Led modernization of frontend architecture from ExtJS/jQuery to React and Redux across enterprise applications.
- Designed and launched a log visualization platform reducing operational debugging effort by approximately 50%.
- Built internal developer tooling, backend services, testing frameworks, and engineering utilities using Java, Python, JavaScript, Bash, and Selenium.
- Established frontend engineering standards and onboarding documentation.
- Supported enterprise customer deployments and production issue resolution.

EDUCATION

Master of Science in Computer and Information Technology

University of Pennsylvania • Philadelphia, PA • 2012

Bachelor of Technology in Computer Science

VIT University • Vellore • 2010

SKILLS

React, TypeScript, JavaScript, Redux, React Query, Zustand, Microfrontends, Module Federation, Design Systems, Accessibility (a11y), CI/CD, Webpack, CloudFront, S3, CDK, Feature Flags, RBAC, API Gateways, Node.js, Ruby on Rails, Java, Python, GraphQL, REST APIs, MySQL, Cassandra, Playwright, Vitest, Jest, React Testing Library, Cypress, Selenium
