

ALEXANDER

VON STUELPNAGEL

Senior Frontend Platform Engineer

CONTACT

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rosewire.net

CORE SKILLS

TIER 1 — PLATFORM

Module Federation (MFE)

OpenTelemetry · Resilience4j

Playwright · Contract Testing

Blue-Green · Spinnaker CI/CD

TIER 2 — APPLICATION

React 18 · TypeScript 5

TanStack Query v5 · Zod

React Hook Form · Redux

Jest · Stryker / PIT

Spring Boot · Java 21

INFRASTRUCTURE

Jenkins · Docker · AWS ECS/EKS

Kafka · Cassandra · PostgreSQL

Proxmox · Caddy · Cloudflare

EDUCATION

University of Vermont · B.A. Computer Science

Business Administration Minor · May 2017

PROFESSIONAL SUMMARY

Senior frontend engineer with platform-engineering and observability ownership at enterprise scale. Shipped Module Federation micro-frontends in regulated production at JPMorgan Chase — serving tens of millions of cardholders across 2 geo-redundant regions, ~300k dispute events/day. Deep expertise in React 18, TypeScript, TanStack Query, six-layer testing strategy, OpenTelemetry instrumentation, and Spinnaker blue-green CI/CD. Seeking a senior full-stack or frontend platform role at a smaller, faster-moving company where one engineer can own a meaningful slice end-to-end.

EXPERIENCE

JPMorgan Chase — Claims, Disputes & Fraud Operations

Apr 2024 – May 2026

▲ Contract → FTE Oct 2024

Senior Frontend Developer · Octagon Migration

- ▶ Built 3 of 5 federated micro-frontends (non-fraud inline, fraud inline, status tracker) on Webpack 5 Module Federation — runtime composition with shared React/Router/design-system singletons; each MFE deployed and rolled back independently.
- ▶ Engineered multi-step dispute wizard covering 22+ scenarios using React Hook Form + Zod schema validation per step and TanStack Query v5 for server-state caching — eligibility results cached across wizard back-navigation.
- ▶ Enforced six-layer quality strategy: Jest (~100% coverage), Cypress component, Playwright E2E (Hoverfly service virtualization + Gherkin BDD), Stryker mutation (70% kill-rate gate), PactFlow bidirectional contract testing across 5+ services.
- ▶ Operated under OpenTelemetry mandate (ADR-OBS-30): wired @opentelemetry/instrumentation-xml-http-request for frontend trace continuity through BFF → eligibility → Cassandra; traces surfaced in Dynatrace APM.
- ▶ Shipped through 13-stage Spinnaker blue-green pipeline: Jenkins build + coverage gates → mutation gate → Pactflow can-i-deploy → BlazeMeter 60-min load test → multi-region blue deploy → health-check-driven cutover → auto-rollback on failure.

Spinnaker

Jenkins

Module Federation

Webpack 5

TanStack Query

Zod

Playwright

Stryker

PactFlow

OTel

Resilience4j

Ford Motor Company (via TekSystems)

Aug 2022 – Aug 2023

Full-Stack Developer · Ford Credit Portal

- ▶ Built React + Spring Boot credit-check and vehicle-upgrade status applications using trunk-based development and Strangler Fig migration pattern; established CI/CD pipelines across DEV/UAT/PROD environments.
- ▶ Delivered internal Kafka adoption presentation to Ford Credit engineering leadership; advocated event-driven architecture for credit decisioning pipeline.

Accenture — Fortune 500 Healthcare Client

Aug 2018 – Aug 2022

Backend Lead → Front End Developer → Senior Developer / DevOps

- ▶ Backend Lead: designed and developed Java concurrency application to cross-reference 8,000+ claims records from RTR in under an hour; managed EDW → Claims RTR data migration ensuring completeness and accuracy.
- ▶ Frontend: expanded provider-search platform to 40 sites for Open Enrollment; integrated NgRx state management and facilitated Angular → React component migration.
- ▶ Senior/DevOps: led CI/CD migration from Bitbucket/Cloudbees to GitLab/Harness across 3 teams; built Elasticsearch Identifier Generator API consumed by multiple microservices.

NOTABLE

Eagle Scout — Boy Scouts of America · Revature Microservice Architecture Bootcamp (2018) · Self-hosted infrastructure: Proxmox + Cloudflare + OpenTelemetry stack at rosewire.net