

JESSE ALLOY

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SUMMARY

Senior Software Engineer with 6+ years of experience, including 4 years specializing in large-scale infrastructure platforms at high-growth companies. Expertise in architecting systems managing 500K+ cloud resources and processing 5M+ events daily. Focused on multi-cloud architecture and resource management platforms.

WORK EXPERIENCE

Stripe

Remote

Senior Software Engineer, L3

January 2023 – Present

Software Engineer, L2

January 2022 – December 2022

Resource Management Team - Core Infrastructure Management Platform

- ▶ **Led multi-cloud expansion initiative (2025):** Architected and implemented enhancements to Space Station (Stripe's cloud infrastructure management proxy) to seamlessly acquire properly scoped Azure credentials, and provided an interface for arbitrary service credentialing for all Stripe infrastructure services, unblocking critical systems for Stripe's strategic multi-cloud migration
- ▶ **Optimized cloud spend (2024-2025):** Led multiple efficiency initiatives focused on AWS ODCRs automation and management, saving hundreds of thousands annually while leading engineers through implementation
- ▶ **Key contributor to SPICE platform (2024-2025):** Served as DRI for critical design components and implemented key features for Stripe's first generalized resource-management platform. Since GA, fully onboarded 10+ product & infrastructure teams, now managing 500k+ resources and processing 5M reconciliation events daily, delivering \$23M/year in fraud-loss savings and 7,500+ engineering hours/year in productivity gains
- ▶ **Enabled \$35M annual cost savings (2023):** Led critical workstreams for Stripe's largest observability initiative, implementing automated Terraform deployments backed by custom asynchronous Terraform APIs to migrate thousands of alert rules, helping enable discontinuation of SignalFX contract by renewal deadline
- ▶ **Drove infrastructure modernization:** Led 2022 initiative to deprecate Hashicorp Consul in favor of internal provider for Cloud Infrastructure CLI, contributing to \$6.3M/year in licensing cost reductions
- ▶ **Enabled platform scalability (2023):** Key contributor to AWS account sharding initiative, refactoring infrastructure tooling and fleet management systems to manage resources across multiple AWS accounts as Stripe scaled past single-account limits. Defined critical processes, abstractions, schemas, and norms that define Stripe's cloud footprint today
- ▶ **Built customer-facing compliance tooling:** Launched Escheatment Dashboard for 1500+ Connect platforms, providing visibility and control into legally required unclaimed balances processes
- ▶ **Optimized support operations:** Saved Stripe \$300k/year by implementing new verification status flow in external-facing support chat product
- ▶ **Platform impact:** Core contributor to infrastructure serving 400M+ requests/year supporting Stripe's global operations

Yext

Washington, D.C. Metro Area

Software Engineer III

November 2020 – November 2021

Software Engineer II

August 2019 – November 2020

Software Engineer Intern

June 2018 – August 2018

- ▶ Built and optimized consumer-facing landing pages for Fortune 500 clients (Taco Bell, Jaguar Land Rover, AT&T) using ES6 JavaScript, Sass, and Webpack with focus on SEO, accessibility, and performance
- ▶ Designed and maintained custom ETL pipelines in Go and complex data export systems in Java
- ▶ Developed internal tooling including git-flow CLIs and web scrapers to improve developer workflow
- ▶ Led R&D initiatives including legacy browser support deprecation and technical interview question design

TECHNICAL SKILLS

Languages & Tools: Go, Terraform, Ruby, Python, JavaScript, Java

Infrastructure: AWS (extensive), Azure, Bazel, Jenkins, Prometheus, Linux, Grafana

Web Technologies: React, Webpack, SCSS/CSS, HTML, Web Accessibility

Additional: Git, Google Closure Templates, C++

EDUCATION

University of Virginia • B.S. Computer Science, B.A. Physics • GPA: 3.92 • May 2019