Vishrut Dixit

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Summary

Senior software engineer with 7+ years of experience building infrastructure and ML systems at enterprise scale. Founding member of Salesforce's Core-on-Git project, transforming development workflows for 5K+ engineers. Currently improving Core CI developer experience by developing agentic workflows, such as an autonomous test fix agent.

Experience

Salesforce.com, Inc.

New York City, NY

Lead Member of Technical Staff (LMTS) — *Aug 2018 - Present*

ML Infrastructure, Jan. 2024 - Present

- Built an autonomous agent that automatically fixes test failures on developer PRs, integrated with the Core CI system.
- Built ML test recommendation service integrated into CI to optimize test selection from 2M+ tests; handles 14K+ daily requests and safeguards codeline stability for 5K+ developers and accelerating pre-commit feedback cycles.
- Developed feature store (10K+ daily feature computations) as a canonical registry and calculation engine for ML features, enabling reproducible training workflows and real-time inference.
- Implemented SCM-agnostic change abstraction (API + data model) to unify Git/Perforce changes, ensuring ML services remained compatible with new Git-based CI infrastructure.
- Engineered declarative data validation framework for BigQuery data lake, detecting drift and completeness issues early and preventing corrupted data from propagating into ML workflows.
- **Tech Stack:** Python, Kubernetes (GKE), Docker, Google Cloud Platform (GCP), Terraform.

Core-on-Git, Mar. 2020 - Dec. 2023

- Founding member of a team that successfully migrated the Core App codebase from Perforce to Git, upgrading the experience of 5K+ developers.
- Developed patented hybrid-SCM architecture enabling Git workflows with Perforce backend (Patent 20230229435).
- Built custom Git tooling and bidirectional sync pipelines for low-latency code synchronization.
- Architected v2 overhaul, replacing the hybrid SCM model with complete Git migration using Git LFS and performance optimizations.
- Drove adoption to 100% by engaging with users to address concerns, improve the product, and ensure a seamless transition.
- Led non-engineering efforts including presenting the project internally, marketing its benefits, mentoring interns, and supporting developers on the internal Stack Overflow, where I was the #1 contributor over a 6-month period.
- **Tech Stack:** Git, Java, Groovy, Python, POSIX Shell, Jenkins.

Core Engineering - Metadata Platform, Aug. 2018 - Mar. 2020

- Optimized core app startup by parallelizing task execution through a dependency framework, saving 50K+ engineering hours annually ($2M+).
- Revamped internal developer tool for designing Salesforce data objects, achieving 5x increase in active usage.
- Improved core app build performance by creating multi-threaded caching system for parsing 4K+ XML resources in Maven builds (up to 90% faster).
- **Tech Stack:** Java, Maven.

Skills

Python | Java | Golang | Machine Learning | Google Cloud Platform (GCP) | Kubernetes | Docker | Git | Jenkins | Groovy | POSIX Shell

Education

University of Illinois at Urbana-Champaign — **Champaign, IL**

B.S. Computer Engineering — *2014 - 2018*

Illinois Mathematics and Science Academy — **Aurora, IL**

H.S. Diploma — *2011 - 2014*