DAYANA M SUNNY

SENIOR SOFTWARE ENGINEER

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PROFESSIONAL SUMMARY

Senior Software Engineer with 7+ years of experience building distributed systems, identity and access management platforms, event-driven architectures, and cloud-native backend services. Expertise in Go, Python, Kafka, PostgreSQL, Kubernetes, AWS, and GCP. Proven track record delivering scalable infrastructure, fraud prevention systems, developer productivity tools, and high-availability platforms at Cloudflare, Shipt, Apple, and IBM.

Languages

Go, Python, JavaScript, TypeScript, Swift, SQL

Backend & Distributed Systems

Microservices, REST APIs, Kafka, Temporal, Event-Driven Architecture, Distributed Systems, Background Processing

Databases & Storage

PostgreSQL, Redis, Elasticsearch, Couchbase, Snowflake, DynamoDB, MySQL, Cassandra

Cloud & Infrastructure, Observability

AWS, GCP, Kubernetes, Docker, GitLab CI/CD, TeamCity, TravisCI, Prometheus, Grafana, Splunk

Security & Identity

OAuth2, OIDC, SSO, API Authentication, Access Control

PROFESSIONAL EXPERIENCE

Cloudflare

Software Engineer, Identity Access Management (AuthN)
Austin, TX | Sep 2025 – May 2026

- Designed and implemented encryption workflows to eliminate approximately 3 million plaintext API keys across Cloudflare services, significantly improving platform security posture.
- Developed large-scale migration processes using PostgreSQL stored procedures and Vault-based key management systems.
- Redesigned OAuth consent flows for third-party integrations using Go, React, Vite, and Cloudflare Workers.
- Added account-selection capabilities and improved user experience for OAuth authorization workflows.
- Migrated microservices from TeamCity to GitLab CI/CD pipelines, improving deployment automation and maintainability

- Contributed to Single Sign-On (SSO) solutions supporting academic (.edu) organizations.

Technologies: Go, PostgreSQL, Vault, React, Cloudflare Workers, GitLab CI/CD

Shipt
Software Engineer
Remote, CA | Feb 2023 – Oct 2024

Identity Verification Platform

- Designed and developed a distributed identity verification platform processing **800–1,200 verification events daily** and supporting onboarding workflows for **300,000+ shoppers annually**.
- Built reusable verification workflows used for onboarding, fraud prevention, and virtual card issuance.
- Developed resilient Kafka consumers and webhook processing systems capable of handling asynchronous verification events.
- Partnered with Product and Operations teams to translate business requirements into scalable technical solutions.
- Improved fraud prevention capabilities by automating identity verification for new and existing shoppers.

Workflow & Platform Optimization

- Replaced a 25+ hour virtual card issuance batch process with Temporal workflows, dramatically reducing processing time and eliminating onboarding bottlenecks.
- Built distributed workflows with improved fault tolerance, observability, and operational reliability.
- Led engineering efforts supporting metro-merger initiatives involving large-scale shopper and delivery zone migrations.

Search & Internal Tooling

- Designed and implemented Elasticsearch-powered applicant search capabilities.
- Built indexing pipelines and APIs supporting search by name, phone number, email, zip code, and address.
- Developed administrative tooling and bulk-processing APIs used by operations teams.
- Created Snowflake queries and Python automation scripts for operational reporting and troubleshooting.
- Mentored junior engineers through design reviews, debugging sessions, and technical guidance.

Technologies: Go, Kafka, PostgreSQL, Elasticsearch, Temporal, Snowflake, Python

Apple
Software Engineer, Retail Store Operations
Sunnyvale | Nov 2019 - Aug 2022

- Built distributed operational tooling deployed across Apple data centers supporting retail store operations worldwide.
- Developed a microservice dependency graph platform using Node.js and event-driven architectures to visualize service relationships and dependencies.

- Designed and implemented APIs consumed by web and iOS applications.
- Built Splunk dashboards and observability solutions providing operational visibility into distributed systems.

High Availability Monitoring Platform

- Designed and developed a highly available Watchdog platform for real-time monitoring of 7 application suites and 20–30 microservices health across 3 data centers.
- Built Redis-backed monitoring systems continuously validating service availability and load balancer configurations.
- Implemented distributed health-checking jobs and configuration synchronization workflows.
- Ensured high availability and consistency across geographically distributed deployments.

Developer Productivity & Observability

- Developed a Go-based Prometheus exporter framework supporting PostgreSQL, Couchbase, and Elasticsearch.
- Standardized metrics collection and observability across multiple internal services.
- Built internal iOS applications using SwiftUI and Combine frameworks.

Technologies: Go, Node.js, Swift, SwiftUI, Redis, PostgreSQL, Couchbase, Elasticsearch, Prometheus, Splunk

IBM
Cloud Software Engineer
Austin, TX | April 2017 - Oct 2019

- Developed cloud platform services including cart, order, and fulfillment microservices supporting enterprise cloud offerings.
- Built REST APIs using Go and Python supporting provisioning and lifecycle management workflows.
- Contributed to the design and implementation of CloudMatrix fulfillment services responsible for cloud resource provisioning.
- Leveraged RabbitMQ for event-driven communication between distributed services.
- Containerized microservices using Docker and deployed workloads on Kubernetes infrastructure.
- Participated in Agile development processes including sprint planning, architecture discussions, and cross-functional collaboration.

Technologies: Go, Python, RabbitMQ, Docker, Kubernetes, CouchDB

EDUCATION

Master of Science: Computer Science, Jan 2015 - Dec 2016

Illinois Institute of Technology | Chicago

Bachelor of Technology:Sept 2008 - May2012

Federal Institute of Science and Technology