

Jose Milanes

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TECHNICAL SKILLS

Languages: Java, Kotlin, Python, JavaScript, TypeScript

Systems & Scale: Distributed Systems, Concurrency Control, Microservices, API Design, RESTful & GraphQL Services, Performance Optimization, Reliability Engineering, Large-Scale Data Processing

Infrastructure: AWS (S3, Kinesis, SNS, SQS), Docker, Kubernetes, Temporal, CI/CD, DevOps, Apache Airflow, DBT

Data Stores: PostgreSQL, MySQL, DynamoDB, MongoDB, Redis, NoSQL

Observability & Quality: StatsD, Micrometer, Splunk, SignalFX, Snyk, Tenable, Code Review, Test Engineering, Documentation

Leadership: Technical Design Reviews, Cross-functional Collaboration, Mentorship, Strategic Planning

RELEVANT EXPERIENCE

Software Engineer II — Atlassian

January 2025 – Present

- Drove an organization-wide developer productivity initiative that raised deployment pipeline reliability from 70% to 90% via redesigned PR verification and parallel test execution.
- Led an observability and performance uplift that reduced high-severity incidents by 50%, introducing SLOs, automated alerting, and standardized metrics/logging practices adopted across a monorepo.
- Migrated a microservice into a monorepo for 30+ engineers with zero downtime, preserving full commit history and tooling parity (coverage scanning, deploy pipelines) by keeping the old deployment live during cutover.
- Built an orchestration API (Kotlin, Spring Boot, PostgreSQL, Temporal) sequencing Enterprise Posture Management's batch jobs topologically with job-ID tracking, eliminating concurrency-driven data corruption.
- Built and deployed an internal MCP server (Python, AWS) letting 500+ engineers and AI agents self-serve compliance answers instantly, replacing Slack/ticket requests that took 1+ day.
- Built automated data pipelines (Java, AWS S3, Airflow, DBT) with an AI agent for onboarding new tables, powering Release Tracks dashboards that gave leadership product insights and validated customer feedback.
- Built a custom distributed locking mechanism in Java and PostgreSQL using serializable transaction isolation to eliminate data inconsistencies and improve concurrency control for a high-traffic enterprise service.
- Engineered a standardized encryption framework (Java, AES-GCM, HashiCorp Vault) across 7+ platform services, cutting per-service encryption effort and hardening APIs via opaque, tamper-resistant cursors.

Software Engineer I — Atlassian

July 2023 – January 2025

- Improved performance and maintainability across 4 internal applications by standardizing GraphQL schema design and resolver logic, accelerating development cycles by up to 50%.
- Designed a new system for on-demand cloud resource inventory reporting and automated 4 recurring reports, eliminating a week of manual effort per cycle and supporting FedRAMP Moderate compliance.
- Built and shipped an API to migrate 1M+ records from a legacy compliance dashboard to a new data model, unblocking support for additional industry-wide compliance standards.

Software Development Engineer Intern — Amazon (AWS)

May 2022 – August 2022

- Built data migration scripts in Python and Apex to move 200+ analytic reports between environments, improving environment parity for 15+ developers and testers.
- Reduced concurrency-related data inconsistencies by implementing queries with strict isolation levels (serializable, repeatable read) using SOQL and Apex DML.

EDUCATION

- Bachelor of Science in Computer Science — Florida International University

CERTIFICATIONS & ACHIEVEMENTS

- LeetCode — Top 4.35% (Contest Rating 1905) — leetcode.com/u/jose-milanes
- AWS Certified Cloud Practitioner (AWS CCP)