

# Anderson Colon

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## SUMMARY

Staff software engineer with 12+ years building correctness critical commerce platforms, **distributed systems**, and business critical services. Leads architecture across pricing, tax, payments, and order domains, connecting product strategy with reliable delivery across multiple engineering teams. Designs Kotlin and Java microservices with DropWizard, AWS, Postgres, DynamoDB, RDS, Lambda, Spark, Pulsar, and RabbitMQ. Guides **API evolution** across REST and GraphQL consumers, data migrations across sharded databases, and operational practices covering observability, alerting, incident response, and **post incident learning**. Mentors senior and mid level engineers through design reviews, technical decision records, and delegated ownership. Partners with Product, QA, and engineering leadership to clarify tradeoffs and create executable plans. Applies **AI assisted development** with safeguards that support testing, learning, delivery quality, and maintainable software.

## EXPERIENCE

### Staff Software Engineer, Pricing Platform

January 2023 - Present

Mercury Commerce Labs

*Austin, TX*

Leads architecture, delivery, and operations for shared pricing services supporting checkout and point of sale experiences. Guides multiple teams through domain decisions, platform evolution, reliability work, and technical leadership development.

- Set pricing architecture for discounts, taxes, fees, and **service charges** across checkout and **point of sale**.
- Led shared pricing capabilities for six teams with versioned **REST** and **GraphQL** contracts supporting independent client evolution.
- Designed Kotlin and Java services on AWS with RDS, DynamoDB, Lambda, and sharded Postgres migrations.
- Established observability, alerting, **incident response**, and post incident reviews for business critical **pricing** services.
- Mentored senior and mid level engineers through design reviews, architecture workshops, and technical decision records.
- Introduced guarded AI assisted workflows for test generation, code exploration, and review preparation.

### Principal Software Engineer

March 2020 - December 2022

Juniper Payments Network

*Dallas, TX*

Owned cross team technical direction for tax and payment calculation services requiring deterministic monetary results, auditable rules, dependable messaging, and safe data evolution. Developed engineers into broader technical leaders through delegated ownership and feedback.

- Led **tax** and payment service design with deterministic monetary results across multiple commerce channels.
- Evolved Java event services with **Pulsar** and **RabbitMQ** using idempotency, retries, ordering, and failure handling.
- Directed **Postgres** migrations across clusters with compatibility windows and verification queries for dependent services.
- Authored **architecture** proposals comparing latency, consistency, operability, and cost for **product** and engineering leaders.
- Served as incident lead for messaging and database failures, sponsoring monitoring and deployment remediation.
- Coached experienced engineers through design ownership and feedback on APIs, boundaries, and operational readiness.

### Senior Software Engineer

July 2017 - February 2020

BlueMesa Retail Technology

*Denver, CO*

Built distributed order and promotion capabilities for web and store applications, with responsibility for domain modeling, API evolution, batch reconciliation, production readiness, and Android point of sale integration.

- Built **Java** and **Kotlin** promotion services with testable discount models for web and store applications.
- Designed REST APIs and schema versioning that preserved compatibility for multiple pricing and checkout consumers.
- Developed Spark batch workflows reconciling order records and exposing repeatable pricing discrepancy analysis.
- Improved service readiness through telemetry, actionable alerts, runbooks, and failure mode testing before launches.
- Partnered with **Android** engineers on Java and Kotlin **point of sale** integrations using shared contract tests.
- Mentored engineers on **data modeling**, **API evolution**, distributed failures, and correctness focused testing.

### Software Engineer II

September 2015 - June 2017

Northstar Order Systems

*Minneapolis, MN*

Developed Java microservices for order capture and checkout, owning design, messaging, database changes, testing, production validation, and early mentoring responsibilities within a growing engineering team.

- Developed Java **microservices** for order capture and checkout from design through production validation.
- Implemented RabbitMQ retry and dead letter patterns with idempotent consumers for safer event recovery.
- Expanded Postgres schemas and migration scripts through backward compatible coordination with dependent teams.
- Built REST endpoints and integration tests for promotion and tax workflows with changing business rules.
- Added operational dashboards and alert thresholds that gave on call engineers clearer incident signals.
- Mentored newer engineers through code reviews and debugging sessions while owning release follow up.

Software Engineer

Cedar Ridge Software

June 2014 - August 2015

Madison, WI

- Developed backend components for retail order workflows, gaining progressive ownership of Java services, relational models, messaging, monetary testing, query tuning, service health, and release preparation.
- Developed Java services and relational models supporting retail checkout and transaction records.
  - Built RabbitMQ integrations that separated processing steps and clarified retry and failure handling.
  - Created integration tests for monetary calculations and API behavior, providing repeatable regression coverage.
  - Tuned Postgres queries and indexes for order history workloads while documenting migration procedures.
  - Added health metrics and structured logging that improved evidence during diagnosis and incident reviews.
  - Progressed from scoped features to service changes, peer reviews, and release preparation.

PROJECTS

Unified Commerce Pricing Rules 📅 2024

Built a shared pricing capability concept for discounts, taxes, fees, and service charges across cloud checkout and point of sale channels. Focused on deterministic results, API evolution, and operational reliability.

AI Assisted Engineering Workflow 📅 2023

Introduced guarded development practices using AI assistance for test generation, code exploration, and review preparation. Preserved security, correctness, maintainability, and human accountability throughout delivery.

LEADERSHIP & AWARDS

- Technical Architecture Mentor, Internal Engineering Mentorship Program, 2022 to Present
- AWS Certified Solutions Architect Associate, recognized for cloud architecture capability, 2021
- AWS Certified Developer Associate, recognized for application delivery expertise, 2019

EDUCATION

Bachelor's Degree in Computer Science

2014

University of Wisconsin Madison GPA: 3.5

Madison, WI

*Coursework: Distributed Systems, Database Systems, Software Engineering, Algorithms*

CERTIFICATIONS

- AWS Certified Solutions Architect Associate 📅 2021
- AWS Certified Developer Associate 📅 2019

TECHNICAL SKILLS

- **Backend Languages:** Kotlin, Java, DropWizard
- **API Technologies:** REST, GraphQL, Schema Design
- **Cloud Services:** AWS, RDS, Lambda
- **Data Stores:** Postgres, DynamoDB, Sharded Databases
- **Messaging Systems:** Pulsar, RabbitMQ, Enterprise Messaging
- **Data Engineering:** Apache Spark, Batch Workloads, Query Workloads
- **Commerce Domains:** Pricing, Tax, Payments
- **Reliability Operations:** Observability, Alerting, Incident Response
- **Architecture Practices:** Technical Design, API Versioning, Data Migrations
- **Mobile Integration:** Android, Java, Kotlin
- **Engineering Methods:** Microservices, Distributed Systems, AI Assisted Development

SKILLS

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|--------------|-----------------------|----------------|---------------------|
| • Kotlin     | • GraphQL             | • Postgres     | • RabbitMQ          |
| • Java       | • Distributed Systems | • DynamoDB     | • Data Modeling     |
| • DropWizard | • Microservices       | • Apache Spark | • Incident Response |
| • REST APIs  | • AWS                 | • Pulsar       |                     |

PROFESSIONAL AFFILIATIONS

- Internal Engineering Mentorship Program, Technical Architecture Mentor, 2022 to Present

- Cross Team Architecture Review Group, contributor to platform design alignment and technical standards
- Engineering Reliability Community, participant in incident learning and operational practice improvement

**LANGUAGES**

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- English (Native)
- Spanish (Proficient)

**ADDITIONAL INFORMATION**

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**Work Status** : Authorized to work in United States. No sponsorship required.

**REFERENCES**

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AVAILABLE ON REQUEST