

YICHONG SHEN

BACKEND SOFTWARE ENGINEER

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SUMMARY

Backend engineer with nearly four years at Amazon building high-volume transaction and financial systems where correctness, idempotency, reconciliation, and safe failure recovery were central. Experienced owning microservices, event-driven AWS workflows, production migrations, and operational investigations end to end.

SKILLS

Java Technologies: Java SE 8/11, Java EE concepts, Spring, Spring Boot, microservices, REST APIs, dependency injection, unit and integration testing; production experience uses comparable Amazon-internal Java service frameworks

Architectures: MVC, microservices, distributed systems, event-driven architecture, Apache Kafka concepts, pub/sub and queue-based messaging, asynchronous workflows, idempotency, retries, DLQs, concurrency control

Databases: DynamoDB, SQL, Spark SQL, data modeling, schema evolution, composite keys, conditional writes, data consistency and reconciliation

Languages: Java, Python, TypeScript, SQL

Specialized Software: Visual Studio, Visual Studio Code, Git, GitHub, AWS CDK, container tooling, CI/CD, CloudWatch, observability, automated testing

Cloud Technologies: AWS ECS Fargate, Lambda, EventBridge, DynamoDB, S3, CloudWatch

Miscellaneous Skills: System design, problem solving, production debugging, cross-functional communication, project ownership, safe migrations, incident response

PROFESSIONAL EXPERIENCE

Amazon | Software Development Engineer | Jul 2022 - Apr 2026

Prime Video Financial Systems | Jan 2023 - Apr 2026

Ledger Extraction & Reconciliation Platform

- Owned the design and delivery of a Java/AWS service processing a daily batch of 400,000+ financial records from 150+ MB files; implemented full-file validation, idempotent upserts, and run-state tracking for safe replay.
- Evaluated three extraction architectures, secured direct source-table access, and eliminated an incomplete intermediate-data dependency; built ECS Fargate/EventBridge orchestration, alarms, and automated incident creation.

Transaction Systems & Global Migrations

- Built Java microservices with Amazon-internal dependency-injection, configuration, and service frameworks, applying patterns directly transferable to Spring Boot and Spring-based applications.
- Designed event-driven payment, fulfillment, refund, and reconciliation workflows using pub/sub and queue-based messaging, conditional writes, locking, retries, and DLQs - patterns transferable to Apache Kafka consumers.
- Drove a 14-month migration of Apple Channel and SVOD accounting across seven regional groups; reconciliation checks found no transaction loss or duplicate booking.

Revenue Enablement & Production Reliability

- Implemented five atomic bundle-accounting workflows required for launches covering 12,200 initial pre-orders and products associated with \$43.4M in 2025 revenue.
- Diagnosed and corrected a five-month booking/reconciliation defect by tracing production logs and transaction state transitions; supported reconciliation of ~\$7.5M in affected transactions.

Amazon Music | Software Development Engineer | Jul 2022 - Jan 2023

- Built monitoring and operational tooling for distributed services; investigated customer-impacting failures and shipped targeted reliability improvements in a high-availability environment.

EDUCATION

University of California, Irvine | B.S. Computer Game Science