

# Amanda Truong

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Senior Backend Engineer with 7+ years owning high-throughput, event-driven systems at American Express and JPMorgan Chase. Designs and delivers low-latency APIs and real-time data pipelines handling hundreds of thousands of transactions daily across credit risk decisioning, card originations, and compliance-critical domains. Deep expertise in Java, Kafka, and distributed microservices; track record of driving cross-team technical decisions, mentoring engineers, and shipping observable, resilient systems at scale.

## Experience

### American Express

Aug 2022 – Present

- **150k+ credit decisions/day:** Designed and owned end-to-end event-driven data pipelines in Java / Spring Boot / Kafka, maintaining sub-1-second latency SLAs at sustained production load.
- Drove the design and delivery of gRPC and REST microservices for real-time credit limit assessments; defined service contracts and integration patterns adopted across downstream platform teams.
- Engineered asynchronous, multi-threaded compute workflows to derive risk variables from raw transactional data, enriching and publishing to analytics platforms powering credit risk models.
- Led alignment with product managers and data stewards to define critical risk variable schemas, ensuring accuracy and compliance across ingestion, transformation, and delivery layers.
- Owned end-to-end encryption and PII protection for sensitive risk variables, meeting enterprise security and regulatory requirements with zero compliance findings.
- Mentored junior engineers and new hires through code reviews, pair programming, and 1:1s; accelerated onboarding and raised team code quality standards.

### JPMorgan Chase & Co.

Mar 2020 – Aug 2022

- Built and scaled Java Spring Boot microservices processing **20k+ card applications daily**, integrating with real-time decisioning systems for automated approvals across co-branded products.
- Designed and delivered REST APIs for multiple co-branded card products; owned end-to-end integration from API contract through production deployment in collaboration with partner engineering teams.
- Implemented multi-layer encryption protocols at partner integration boundaries, satisfying financial regulatory compliance standards across all product lines.
- Built Splunk dashboards and proactive alerting that reduced mean time to incident detection; became the team's primary observability reference during on-call rotations.

### Fannie Mae

Jun 2018 – Mar 2020

- Developed backend APIs for a securities trading platform processing **\$1B+ daily**, enabling reliable integrations with external customer systems under high-volume trading conditions.
- Reduced manual regression testing time by **70%** by building Jenkins-integrated shakeout scripts run automatically off-hours, eliminating a recurring pre-release bottleneck.

## Skills

**Languages:** Java (primary), Kotlin, Python

**Backend & Streaming:** Spring Boot, Kafka, gRPC, REST, Avro, Protobuf, idempotency, API versioning

**Distributed Systems:** Event-driven architecture, async messaging, circuit breakers, rate limiting, backpressure handling, consistent hashing

**Databases:** Cassandra, PostgreSQL, Oracle, query optimization, stored procedures

**Cloud & Infrastructure:** AWS, Kubernetes (EKS), Docker

**Observability:** OpenTelemetry, Prometheus, Grafana, Splunk, Dynatrace, structured logging

**CI/CD & Build:** Jenkins, Gradle, Git

## Certifications

**AWS Certified Developer – Associate** · Validates proficiency in building, deploying, and debugging cloud-native applications on AWS

## Education

**University of Texas at Dallas** · B.S. Computer Science

May 2018