

Isabelle Xu

Senior Software Engineer

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Experience

Software Engineer → Senior Software Engineer

2022 – Present

LinkedIn

Backend core SWE for LinkedIn Events and Events Ads, LinkedIn's event and live-streaming platform.

- Architected the backend for a new advertising product on LinkedIn's Campaign Manager platform that lets businesses promote events hosted off LinkedIn, coordinating 6+ backend services behind a phased, feature-flagged rollout with UGC-visibility data-consistency safeguards, and externalized a public partner API documented on Microsoft Learn. Now generally available with \$1.2M+ in realized revenue, addressing a \$9.8B B2B event-marketing market.
- Designed and owned LinkedIn's real-time concurrent-viewer-count platform for Live video (2.1M+ broadcasts, 4M+ unique quarterly viewers): a distributed stream-processing pipeline that ingests Kafka playback events through Apache Beam on Flink and serves counts from Apache Pinot with 250ms freshness, backed by a Spark offline job for accurate peak-viewer reconstruction; led the pipeline's migration from Apache Samza to Beam/Flink.
- Designed and drove AI Event Recommended Clips, which auto-generates highlight clips from livestream transcripts through a Kafka-driven pipeline across two backend services that invokes a multi-stage LLM chain (GPT-5.1) for chapter and highlight extraction with a second-stage re-ranker; authored the BE design proposal and drove the architecture across the Events and applied-AI infrastructure teams.
- Led the backend for premium-gated LinkedIn Live events, building entitlement checks and gating across the event page, live video player, and join call-to-action, plus individual-hosted premium event creation, as part of a program generating \$13.8M in subscription value.
- Owned core live-video product capabilities for multiple years in conjunction with infra, spanning the go-live broadcast tool, real-time event-page updates, live state transitions, and the LinkedIn Live notification suite.
- Drove an Events GDPR and data-deletion initiative: bulk-purged orphaned user-data assets across services and built an offline data detection and restoration flow with OCL and Kafka to continuously maintain the clean state.

Associate Software Engineer → Software Engineer

Feb. 2020 – 2022

Capital One

- Built AWS resilience tooling: a custom Lambda-based auto-failover system (extending beyond native Route53) and automated AMI rehydration that cut rehydration time 80%.
- Developed a case-search feature (JPA/Hibernate) serving 6,000+ support agents.
- Integrated OAuth 2.0 with JWT PoP tokens and sensitive-data masking across core services.

Skills

Languages: Java, Python, JavaScript/HTML/CSS, Scala

Frameworks & Libraries: Rest.li, React.js, Apache Beam, Apache Flink, Apache Spark, Apache Samza

Infrastructure & Tools: Apache Kafka, Apache Pinot, Apache Airflow, Trino, Couchbase, Hive, Kubernetes, Docker, Git, gRPC/REST APIs, GraphQL, MySQL, HDFS, Jupyter

Applied AI: LLM integration, prompt engineering, re-ranking, evaluation

AI Dev Tools: GitHub Copilot, Cursor, Claude Code

Education

Washington University in St. Louis, MO

Aug. 2016 – Dec. 2019

BS in Computer Science, Minor in Communication Design | Cumulative GPA: 3.71/4.0