

Shuai Zhang

shuaiz1024@icloud.com | +1469-708-8226 | www.linkedin.com/in/shuaizhang1024

Software Engineer | AI Monetization & Billing Platforms | Distributed Systems

SUMMARY

Backend engineer with 7 years of experience building enterprise monetization, subscription, and usage-based billing systems. At Zuora, leads prepaid commitment and subscription orchestration supporting 100K+ subscriptions and 100B+ usage transactions annually; creator of FluxMeter, an open-source AI metering and budget-enforcement platform.

EXPERIENCE

Zuora, Inc.

Software Engineer III

05/2022 – Present (Promoted in 2024)

Tech Lead – Prepaid Billing & Subscription Orchestration Platform (1-year core initiative)

- Led design and delivery of a prepaid billing and subscription orchestration platform covering commitment, prepayment, invoicing, and drawdown workflows across **10+ enterprise customers**, supporting **100K+ subscriptions and 100B+ usage transactions annually**.
- Architected a **state-driven billing orchestration system** with idempotency and reconciliation; reworked migration and subscription state flows to reduce failures by **60%** and improve performance by **75%**.
- Led **3 engineers** to deliver **20+ billing modules and APIs**, owning architecture and design reviews while coordinating delivery across Backend, Product, Frontend, UX, and QA.
- Built and optimized the **Usage Rating SDK (Java)**, improving processing by **40%**; redesigned Charge Definition to help unlock **~\$2M in enterprise deals**, and rebuilt observability to save **\$30K annually**.

ByteDance, Inc.

Software Engineer

01/2021 – 04/2022

- Built **Python SDK validation infrastructure** and CI/CD release gates covering **90%+ of core APIs**, identifying 10+ critical issues and helping avert an estimated **\$1M+ in potential losses**; developed Android diagnostic and UI automation tooling that saved **two person-weeks per release cycle**.

Elink Elite LLC.

Software Testing Engineer (Forward-Deployed Focus)

09/2019 – 11/2020

- Embedded with hardware validation and production teams to diagnose device failures and translate operational problems into **Python/ADB automation and diagnostic tooling**; parallelized aging tests to save **20 production hours per week** and reduced investigation effort by **60+ hours per month**.

SELECTED PROJECT

FluxMeter

Creator & Maintainer

2026 – Present

- Built an open-source AI usage-metering and budget-enforcement platform using **Java, Flink, Kafka, Redis, Python, and Grafana**, with multi-model ingestion and per-customer cost attribution.
- Implemented prepaid reserve/reconcile, Python/JavaScript SDKs, **sub-10 ms budget checks**, and streaming throughput load-tested on a reference cluster at **500K sustained events/sec with 1M events/sec bursts**.

EDUCATION

M.S., Computer Science, Southern Methodist University, Dallas, Texas

09/2017 – 05/2019

B.S., Computer Science, Guilin University of Electronic Technology, China

09/2013 – 06/2017

SKILLS

AI Monetization: usage metering, pricing architecture, prepaid credits, commitment consumption, cost attribution, budget enforcement

Languages & Backend: Java, Python, JavaScript/TypeScript, SQL, Spring Boot, microservices, REST APIs

Streaming, Data & AI: Kafka, Flink, MySQL, Redis, Pinot, ClickHouse, Grafana, AWS, Docker,

OpenAI/Anthropic APIs, MCP