

#### SENIOR SOFTWARE ENGINEER

## Work Experience

### **Senior Software Engineer**

Chicago, IL

LinkedIn

March 2024 - Present

- Architected alerting system processing 50,000+ QPS using Kafka/Samza/Venice, enabling real-time payment failure detection that reduced involuntary churn by 15% across LinkedIn's commerce platform.
- Eliminated involuntary customer churn by implementing proactive payment failure alerts, recovering \$2M+ in annual revenue and improving subscription retention metrics.
- Pioneered reusable Oracle-to-MySQL migration framework adopted by 12 teams, saving 1 month of engineering time per team and accelerating organizational MySQL adoption efforts.
- Executed zero-downtime Oracle-to-MySQL migration for 2 services handling 3,000 QPS, maintaining 99.99% data consistency using Couchbase-backed entity routing strategy.
- Migrated 4 critical services from Rest.li to gRPC and standardized service documentation with Docusaurus, accelerating developer onboarding from 2 weeks to 3 days through consistent tooling.
- Reduced downstream traffic by 50% and enhanced reliability by 10% through automated Airflow job that purges 30,000 stale cache records daily.
- Optimized JVM performance across 5 production services from 30-80% to 99.9%+ health, reducing GC spikes by 86% (700ms to 100ms) and eliminating daily alerts.

Software Engineer San Francisco, CA

LinkedIn Feb 2022 – March 2024

- Scaled LinkedIn Learning's VYMBII recommendation service to 3,000 QPS while maintaining 99.9% availability, increasing video discovery CTR by 10% for personalized learning content.
- Designed Spark pipelines processing 20+ datasets and 50+TB weekly to classify 10M+ job seekers, enabling targeted Learning Alerts with 5% higher enrollment rates.
- Launched personalized recommendation engine serving 50M+ daily active users, achieving 10% engagement uplift through TikTok-style carousel UX for video course discovery.

# Projects \_\_\_\_\_

## **Anton (Kubernetes Homelab)**

wcygan/anton

- Engineered fault-tolerant 3-node bare-metal Kubernetes cluster using Talos Linux, achieving 99.9% uptime while implementing GitOps CI/CD patterns with Flux.
- Benchmarked distributed data systems (TiDB, RedPanda, DragonflyDB, ScyllaDB) to explore modern alternatives to traditional databases and messaging platforms.
- Fortified cluster with zero-trust architecture using Cloudflare Tunnels and Tailscale.

### tokio-utils Rust Library

wcygan/tokio-utils

- Released async Rust library implementing rate limiting, object pooling, and graceful shutdown patterns, achieving 2x speedup improvement in object pool benchmarks.
- Implemented web crawler processing 300+ pages/minute with adaptive rate limiting, achieving 0% IP blacklist rate across 1,000+ domains while respecting robots.txt.

### Skills \_\_\_\_

Languages Java, Rust, Go, Python, TypeScript, SQL, Scala, Bash

Technologies Kafka, gRPC, Temporal, Flink, Spark, Airflow, Kubernetes, Docker

Databases MySQL, Redis, Couchbase, Oracle, ScyllaDB, DragonflyDB

## **Education** \_

### University of Illinois at Chicago

Chicago, IL

B.S. IN COMPUTER SCIENCE 2021