

Yiqing (William) Sun

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Education

Carnegie Mellon University

Master of Information Systems Management, BIDA Track.

Pittsburgh, PA

August 2025 – December 2026

Tianjin University

Bachelor's, Information Management and Information Systems.

Tianjin, China

September 2021 – July 2025

Professional Experience

Amazon Web Services

Software Development Engineer Intern

Seattle, WA

May 2026 – August 2026

- Not started yet...

Carnegie Mellon University, School of Computer Science

Teaching Assistant for 15-619 Cloud Computing S26

Pittsburgh, PA

December 2025 – May 2025

- Redesigned the course project for 130+ students: a high-performance tweet recommendation service requiring gRPC inter-service communication, TB-scale ETL on GCP Dataproc, and deployment on AWS EKS with managed database services (Aurora, DynamoDB).
- Architected the automated grading system for submissions, including S3-hosted test datasets for correctness validation and realistic load generation patterns for wrk benchmarking, producing per-submission RPS/P99 scores.

Shanghai Mingchen Mould & Plastic Technology Co., Ltd

Software Development Intern

Shanghai, China

July 2024 – October 2024

- Conducted requirements analysis across 3 business workflows; derived a unified database schema (40+ fields) with data integrity constraints to support the company's digital transformation, and collaborated with cross-functional teams to build backend services in JavaScript for CRUD, visualization, and platform integration.
- Built an automated migration pipeline to transform and load 3,000+ legacy records from scattered spreadsheets and manual documents into the new schema, handling data cleaning, format normalization, and edge-case validation.

Projects

Distributed Sharded Storage System

Solo Project, [Github Repo](#) [↗](#)

Pittsburgh, PA

January 2026 – May 2026

- Built a SQL query layer over a sharded key-value engine in Go, supporting schema-validated inserts, updates, deletes, and selects with fan-out execution across horizontal partitions routed via consistent hashing; accelerated by a per-leader write-through LRU cache.
- Backed by a key-value engine where each node hosts multiple independent Raft groups; partitions map to groups via a hierarchical directory namespace, enabling parallel writes to different shards with per-partition fault isolation.

High-Performance Blockchain Mining Service

Team Project

Pittsburgh, PA

September 2025 – December 2025

- Engineered a blockchain microservice in Go on AWS; iterated rapidly on self-managed (kops) K8s clusters with pprof profiling, then deployed to AWS EKS for cost-optimal production, sustaining 9,000+ RPS per m6g.large node (2 vCPU) under a fixed budget.
- Conducted iterative profiling with pprof across the full request path; identified per-request zlib allocations as the highest-impact bottleneck and implemented sync.Pool-based compressor reuse, cutting heap allocations by ~40% and P99 latency by 34 ms.

Gastronome: Business Recommendation Platform

Sole Developer, [Github Repo](#) [↗](#)

Tianjin, China

January 2025 – July 2025

- Built a recommendation platform on the Yelp Dataset (150K businesses, 7M reviews); designed a personalized recommendation engine (NLP on reviews text + ratings) with a multi-tier fallback (similar businesses, regional hotlist) to handle cold-start users.
- Decoupled ML inference from the Django request path via a dedicated gRPC model-serving service; offloaded heavy computation to Celery workers for async processing via RabbitMQ, keeping recommendation API P95 latency under 100 ms at 200 concurrent users.

Skills

Languages: Go (Golang), Python, Java, Scala, SQL, TypeScript

Technologies: Django, Gin, gRPC, PostgreSQL, Redis, RabbitMQ, OpenSearch, Apache Spark, Docker, Kubernetes, Terraform, AWS (EC2, ELB, ECS, EKS, ECR, RDS, ElastiCache, EMR), GCP (Dataproc), GitHub Actions, Sentry, Linux, Git