

Yiqing Sun (William)

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Education

Carnegie Mellon University

Master of Science, Information Systems Management (MISM).

Pittsburgh, PA

2025 – 2026

Tianjin University

Bachelor of Management, Information Management and Information Systems.

Tianjin, China

2021 – 2025

Awarded as an *Outstanding Graduate* (GPA: 3.83/4.0); [WES Transcript](#) 🔗.

Professional Experience

Shanghai Mingchen Mould & Plastic Technology Co., Ltd, [Ticker: 000700.SZ](#) 🔗

Shanghai, China

Software Development Intern, Project Management Department

Jul. 2024 – Oct. 2024

- Collaborated with cross-functional teams to analyze core business workflows and authored 3 functional specification documents; designed a unified database schema encompassing 40+ key fields and corresponding data validation rules.
- Developed and deployed backend database services leveraging **Lark** (*an all-in-one collaboration platform by ByteDance*) and **JavaScript** for data visualization and frontend functionalities, ensuring stable operations of the mould management system.
- Implemented **~30 test cases** covering functional scenarios and edge conditions, significantly enhancing system robustness.
- Engineered a migration pipeline for 3k+ historical records, 100% eliminating manual input errors and improving data integrity.

Ernst & Young Hua Ming LLP

Shanghai, China

Data Analysis Intern, Assurance Department

Jan. 2024 – Mar. 2024

- Executed **ETL on million-scale financial records** from SAP and UFIDA ERP systems; designed automated audit workflows with **Alteryx** (*a workflow-based tool for data analysis and processing*) to reconcile trial balances and financial report statements.
- Supported Porsche and Bosch audits by **deploying EY Helix, Alteryx to build workflow-based data pipelines** that interrogated journal entries and general ledgers; flagged potential compliance risks and forwarded high-risk leads for on-site investigation.
- Utilized **Power BI** to visualize and compare year-over-year transaction data across product lines, identifying financial anomalies.

Personal Projects

SimpleBank: Bank Service Written in Go

Pittsburgh, PA

[LOC 6k] Full-Stack Developer, [Repository](#) 🔗

Jul. 2025 – Nov. 2025

- Developed backend microservices in Go, providing **RESTful APIs (Gin)** and **gRPC** to enable inter-service communication for core banking business (e.g. inter-account transfers); implemented **Gin middleware** for logging, exception handling, rate limiting etc.
- Ensured data consistency for transactions through PostgreSQL transactions and **SQLC-generated, type-safe SQL**; improved query performance by over 30% through DB indexing and Redis caching; resolved concurrency conflicts using distributed locks.
- Leveraged **AWS-managed services** (RDS PostgreSQL, ElastiCache Redis) to ensure scalability and performance under high concurrency; containerized the application using Docker and orchestrated deployment on AWS EKS with Kubernetes.
- Implemented secure authentication mechanisms using **Paseto tokens**; streamlined software delivery, unit testing, integration testing via automated CI/CD pipelines with GitHub Actions and AWS.

Gastronome: A Business Recommendation System Powered by Django

Tianjin, China

[LOC 12k] Full-Stack Developer, Undergraduate Capstone Project, [Repository](#) 🔗

Jan. 2025 – Jul. 2025

- Built scalable backend using **PostgreSQL, RabbitMQ, OpenSearch**, achieving stable performance of 60 RPS, 95th percentile latency < 100ms under 200 concurrent users; automated CI/CD with GitHub Actions (158 unit tests, 90% test coverage).
- Designed a hybrid recommendation algorithm integrating Collaborative Filtering and a DistilBERT NLP model, reducing rating prediction MSE by 88.1% to 2.09; integrated **GNN embeddings** to enable KNN-based recommendations of similar businesses.
- Implemented asynchronous task processing pipelines using **Celery** and decoupled heavy model inference via **gRPC**, enabling efficient remote model serving and offloading from main servers.
- Automated daily ETL and incremental model retraining pipelines using **Apache Airflow 3 DAGs**.
- Containerized application deployment using **Docker**; DevOps monitoring with **Django Admin** and **Sentry**.

Core Skills

Programming Languages (approx. LOC): Python (~18k), Go (~6k), Java (~1k), C++ (~1.3k), SQL.

Backend & Web Application Development: Proficient in MTV frameworks (Django) and front-end/back-end decoupled architectures, with experience in cloud deployment and DevOps on Linux (Ubuntu).

Software Development: Object-Oriented Programming, Relational Database, Message Queue, RESTful API Design & Integration, RPC Microservices, Modular System Design, Unit Testing, Recommendation Algorithms, Transformers.