

TSOMORLIG KHISHIGBOLD

(585) 230-5575 | tsomorligkh@gmail.com | <https://github.com/blossom143>

EDUCATION

Master of Engineering Science, Data Science

State University of New York at Buffalo - Buffalo, New York

Dec 2026

GPA 3.8/4.0

Key Courses: Reinforcement Learning, Machine Learning, Data Models Query Language, Python, Statistical Learning, Probability

Bachelor of Engineering in Software Engineering

National University of Mongolia - Ulaanbaatar, Mongolia

Key Courses: Algorithms, Data Structure, Advanced Software Development, Enterprise Architecture

PROFESSIONAL EXPERIENCE

Cloud Administrator, ESL Federal Credit Union - Rochester, New York

May 2025 - Aug 2025

- Collaborated with System Engineers and Cloud Engineers to ensure security and reliability of **Azure Cloud** based services.
- **Implemented Infrastructure as Code (IaC)** with **Terraform Cloud**, enabling traceability, branching strategies and automating cost estimation and CI/CD processes.
- **Automated** ingestion and transformation of cloud performance metrics into **analytics-ready datasets**, enabling cost optimization and resource planning across Azure services.

Technologies used: Azure Cloud, Terraform, Azure DevOps, SQL, Git, Linux, Windows

Manager, Khan Bank - Ulaanbaatar, Mongolia

Jun 2024 - Dec 2024

- Led a cross-functional production department of 30+ engineers to maintain **99.9% uptime for 300+ Java based microservices** with over 2 million active users.
- Implemented strategic technology projects, **collaborating with multiple levels of stakeholders**, to adopt Site Reliability Engineering (**SRE**) **principles** in production, reducing Mean-Time-To-Recovery (MTTR) and manual intervention **by 67%**.
- Applied **data-driven decision making**, analyzing reliability metrics, incident patterns, and performance data to prioritize engineering investments, initiatives and enhance system stability.

Technologies used: Analytical Query Designs, ELK, Grafana, Prometheus, Git, Dynatrace, Ansible, Azure DevOps

Senior DevOps Engineer, Khan Bank - Ulaanbaatar, Mongolia

Jul 2022 - Jun 2024

- Implemented **MLOps** practices by automating and standardizing version control, build, test, deployment and observability of **machine learning models**, elevating workflow maturity **from manual to a semi-automated level**.
- Automated configuration management and microservice Software Delivery Life Cycle across web applications, iOS and Android mobile applications, by writing and configuring **CI/CD pipelines**, multiplying service **build and deployment speeds by an average of 70%**.
- Enhanced developer experience and **DevSecOps** by enabling self-service SCA, SAST, and DAST **security automation**, which streamlined security processes and improved development vulnerability troubleshooting.

Technologies used: Kubernetes, ArgoCD, Jenkins, KubeFlow, Ansible, Terraform, Redis, SQL, ELK, JFrog, SonarQube

System Engineer, Golomt Bank - Ulaanbaatar, Mongolia

Jun 2019 - Jul 2022

- Independently designed, deployed and managed a full-stack **Kubernetes** architecture with an eBPF based service mesh, CI/CD, **enhancing availability from 99.7% to 99.9%**.
- **Containerized** a core banking system, with 20 app services, by **designing and deploying** to a cloud-native environment, enhancing scalability and reduced resource costs in production.
- Optimized **AWS deployments** by monitoring utilization, enforcing security best practices, and implementing cost-saving strategies, thus improving cloud efficiency, scalability, and cost-effectiveness for development and production teams.

Technologies used: UNIX/Linux, Docker, Kubernetes, GitLab, Ansible, PostgreSQL, Python Flask, CephFS, Grafana, Prometheus

PROJECTS

Code Implementation Analysis with LLM Agent

Ongoing

- Learning and dissecting an open-source LLM Agent, LocAgent, using Loc-Bench_V1 dataset containing 560 bugs.

Technologies used: Python, Qwen-2.5-Coder-Instruct, LiteLLM, JAX, GPT4-o, DeepSeek, Google CoLab

ELT Pipeline with Snowflake, dbt, and Airflow

Jan 2026

- This project implements a scalable ELT pipeline that transforms raw datasets into optimized dimensional models through modular SQL logic, reusable macros for complex business rules, and automated data integrity testing.

Technologies used: dbt, Snowflake, Apache Airflow

AI-Powered SQL Query Assistant

Nov 2025

- Developed a web app that leverages LLM's to translate plain English questions into executable SQL code, allowing users of all technical levels to query databases without writing complex syntax. <https://tsomorlig.streamlit.app/>

Technologies used: Python, Streamlit, Render, Docker, GPT4-o, Github

PROFESSIONAL CERTIFICATIONS

AWS Solutions Architect - Associate | Certified Kubernetes Security Specialist | Certified Kubernetes Administrator

TECHNICAL SKILLS

Python | PyTorch | Deep Learning | LLMs | MLOps | Kubernetes | AWS | ELT, ETL | Model Serving | CI/CD