TSOMORLIG KHISHIGBOLD

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PROFESSIONAL EXPERIENCE

Manager, Khan Bank - Ulaanbaatar, Mongolia **Jun 2024 - Dec 2024**

- Led cross-functional production teams to maintain **99.9% uptime for 300+ Java based microservices** with over 2 million active users.
- Implemented strategic technology projects, leveraging **Site Reliability Engineering (SRE) principles**, reducing Mean-Time-To-Recovery (MTTR) by 90% and manual intervention by 50%
- Introduced a **GitOps** approach to Continuous Deployment processes, by implementing ArgoCD, minimizing human errors, accelerating deployment speeds and increased **successful deployments up to 98%**

Technologies used: *Kubernetes, Istio, Helm, Jenkins, Git, Dynatrace, Grafana, Prometheus, Linux, 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 50-90%.**
- Enhanced security compliance with **DevSecOps** practices by enabling self-service SCA, SAST, and DAST security automation, aligning with shift left strategy.

Technologies used: *Linux, Kubernetes, Helm, Jenkins, Azure DevOps, Java, KubeFlow, Ansible, Terraform, ELK Stack, Grafana, Prometheus, Istio, GlooMesh, JFrog, SonarQube, Acunetix, Github Actions*

Awards*: Employee of the Year*

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%.
- Led technical efforts in **containerizing** a core banking system,and **designing and deploying** to a cloud-native environment, enhancing scalability and reduced resource costs in production.
- Optimized **AWS & Azure deployments** by monitoring utilization, enforcing security best practices, and implementing cost-saving strategies, thus improving efficiency, scalability, and cost-effectiveness for development and production teams.

Technologies used: *UNIX/Linux, Docker, Kubernetes, Helm, Java, Nginx, Apache, AWS (EC2, ECS, Fargate, Lambda, SQS, SNS, RDS, CloudFormation), Terraform, Windows Server, Azure, GitLab, Ansible, Nginx, CephFS, Grafana, Prometheus, Jira*

ACADEMIC PROJECTS

Comparison of Machine Learning Classification Methods

- Trained and tested five widely used classification algorithms on four varied sets of data to compare practical uses, advantages and disadvantages of each algorithm.

Language & Algorithms used: *R, KNN, SVM, Random Forest, Decision Trees, Naive Bayes*

EDUCATION

Bachelor of Engineering in Software Engineering

National University of Mongolia - Ulaanbaatar, Mongolia

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

Awards*: Golomt Bank Student Scholarship*

PROFESSIONAL CERTIFICATIONS

- IBM AI Engineering Professional
- AWS Solutions Architect - Associate
- Certified Kubernetes Security Specialist & Certified Kubernetes Administrator

TECHNICAL SKILLS

CI/CD: GitLab, Jenkins, GitHub Actions, ArgoCD, Azure DevOps (ADO)
Virtualization and Containerization: VMware, Docker, Kubernetes
Infrastructure as Code (IaC): Ansible, Terraform
Cloud Platforms: AWS, Azure
Programming & Shell Scripting: Python, Go, PowerShell, Bash
Monitoring: Splunk, ELK Stack, Grafana, Prometheus
Database (RDBMS & NoSQL): PostgreSQL, MongoDB, Redis, MSSQL