

THEO DEMBEREL

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PLATFORM ENGINEER

Software Engineer with 7+ years of experience designing, building, and operating Kubernetes-based platforms and distributed systems. Specialized in Go, Kubernetes, GitOps, ArgoCD, AWS, Terraform, and cloud infrastructure, with expertise in platform engineering, observability, automation, and CI/CD. Experienced across the full software development lifecycle, from architecture and deployment to production operations, delivering reliable, scalable infrastructure and improving release efficiency. Recognized as a **CNCF Golden Kubestronaut** (all 16 CNCF certifications) and AWS Certified Solutions Architect (Associate).

- DevOps • Cloud-Native • Platform Engineering • Kubernetes & Container Orchestration • GitOps
- Observability & Monitoring • Microservices Architecture • Developer Experience

Languages: TypeScript, Golang

Web: HTML, JavaScript, CSS, ReactJS, Tailwind, NodeJS

Web Services: REST, GRPC, Event Driven Architecture

Web/App Servers: Nginx

Frameworks: Express JS, Golang fiber, Golang gin

Databases: MySQL, PostgreSQL

SDLC: Agile (Scrum), CI/CD, DevOps practices

Tools: Docker, Helm, GitLab CI, ArgoCD, Prometheus, Grafana, GitHub, Jenkins, Karate DLS, Terraform, RabbitMQ

Platforms: Linux, AWS, Kubernetes, VMWare/vSphere, Openstack

Application/Software: Service Now

CAREER NOTE: Completed on-campus studies and currently taking distance education courses to complete a **Master's Degree in Computer Science** (Available for full-time, W-2 employment).

PROFESSIONAL EXPERIENCE

KHAN BANK, Ulaanbaatar, Mongolia • 08/2023 – 01/2026

Khan Bank is one of Mongolia's largest banks, offering retail and corporate banking, loans, and digital services. It has a vast branch network and focuses on technology-driven financial solutions.

Cloud Technical Architect

- Evaluated cloud-native technologies and Kubernetes deployment patterns through POCs, collaborating with engineers and architects to modernize infrastructure and application delivery.
- Implemented ArgoCD for GitOps deployments, reducing manual deployment operations by 30% and standardizing Kubernetes releases across environments.
- Introduced Argo Rollouts with automated canary deployments and rollbacks, reducing deployment-related errors by 40% while enabling safer frequent releases.
- Designed and Developed an Architect Portal with a Technology Adoption Radar, AI-powered service analysis, and RAG-based document intelligence for ADR/ADF reviews.
- Integrated KarateDSL API testing into CI/CD workflows, automating end-to-end banking service validation and reducing post-release error rates by 20%.

Technologies Used: Golang, Kubernetes, ArgoCD, Helm, Jenkins, JMeter, K6, KarateDSL, Typescript, PostgreSQL, VMWare vSphere, Redis, Git, Prometheus, Grafana, Tailwind, NodeJS, Event Driven Architecture, Rest, Azure DevOps.

FIBO GLOBAL LLC, Ulaanbaatar, Mongolia • 04/2020 – 08/2023

Fibo Global is a Mongolian IT company specializing in cloud technology, data center services, and system integration, with operations spanning Mongolia and Central Asia.

Senior Cloud Engineer (11/2021 – 08/2023)

- Designed and developed a billing microservice for OpenStack using Golang, achieving a 70% reduction in errors and manual processes, significantly improving system efficiency and reliability.
- Delivered full-stack cloud management portals (cloud.mn, cloud.ttc.kz) using Golang, React, and Kubernetes, enabling scalable self-service operations for users and admins while maintaining 99.95% uptime.

- Built a Vercel-like PaaS for cloud.mn and cloud.ttc.kz using Golang, Kubernetes, Buildpacks, and Kubernetes Go SDK, enabling automated source-to-deployment workflows.
- Refactored the backend platform to improve performance and maintainability by migrating from deprecated Beego to a new core backend built on Golang Fiber, increasing system efficiency and long-term scalability.

Cloud Engineer (04/2020 – 11/2021)

- Refactored cloud.mn from JavaScript to TypeScript, reducing frontend runtime and build-time errors by approx. 40% and improving code maintainability.
- Replaced react-app-rewired with ViteJS for cloud.mn, achieving up to 20× faster development server startup and build performance.
- Reduced mobile memory usage by ~90% by implementing multipart uploads with pre-signed URLs and S3-compatible storage for direct chunked file uploads.

Technologies Used: ReactJS, Golang, Openstack, AWS, GitlabCI, Kubernetes, Typescript, PostgreSQL, Redis, RabbitMQ, MySQL, Prometheus, Grafana, Tailwind, GRPC, Event driven architecture, Rest, AWS Route53, AWS EC2, AWS SES, AWS LAMBDA, AWS API Gateway.

BOTLTO LLC, Ulaanbaatar, Mongolia • 11/2018 – 04/2020

Japanese eco-friendly company focused on solving plastic pollution by using technology.

Software Engineer

- Improved application performance by adding Redis caching, optimizing PostgreSQL queries, and using JMeter for stress testing, reducing overall load times by 40%.
- Developed and managed AWS CodePipeline CI/CD workflows to automate application builds, testing, and deployments, making releases faster and more reliable.
- Implemented Amazon SQS for asynchronous notification processing, ensuring SMS and email messages were reliably delivered by handling temporary failures and retrying failed requests.
- Built and deployed Docker-based applications on Amazon EC2 with Auto Scaling Groups, enabling the platform to handle increased traffic while maintaining high availability.

Technologies Used: NodeJS, ReactNative, PostgreSQL, AWS, Docker, Docker-Compose, Redis, AWS SQS, AWS SNS, AWS SES, Typescript, JMeter.

PERSONAL PROJECTS

Portfolio (2026): Designed and developed an interactive 3D portfolio website using ReactJS and Three.js, creating custom 3D scenes, animations, and interactive UI elements to showcase professional experience, projects, certifications, and technical expertise. Containerized and deployed the application using Docker and Nginx.

Levelife (2026): Developing an AI based RPG-style life gamification app where users earn XP, level up characters, and build skills across five stats—Strength, Intelligence, Wealth, Social, and Discipline—by completing real-life quests. Built with React Native, ReactJS, Golang, PostgreSQL, Ollama, and Docker, with a planned launch in October 2026.

EDUCATION

Master of Science in Computer Science

(In progress via distance education; expected completion 10/2028)

Maharishi International University, Fairfield, Iowa

Key Courses: Algorithms, Software Engineering, Modern Web Programming, Cloud Computing

Bachelor of Science in Software Engineer

National University of Mongolia, Ulaanbaatar, Mongolia (06/2018)

CERTIFICATIONS

CNCF: Kubestronaut

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LFCS: Linux Foundation Certified Systems Administrator

CNPE: Certified Cloud Native Platform Engineer

AWS SAA: AWS Certified Solutions Architect – Associate