

Khas-Erdene Tsogtsaikhan

Berkeley, CA | +1 510 570 7615 | khaserdene_ts@berkeley.edu

khaserdene.com | linkedin.com/in/khas-erdene-tsogtsaikhan | github.com/Khas-Erdene-Tsogtsaikhan

EDUCATION

University of California, Berkeley

Berkeley, CA

B.S. in Electrical Engineering and Computer Science

Expected May 2028

Relevant Coursework: Data Structures & Algorithms; Computer Networks; Machine Structures; Discrete Mathematics; The Structure and Interpretation of Computer Programs; Intro to Software Engineering; Full-Stack Development; Linear Algebra; Multivariable Calculus

EXPERIENCE

Databricks

Berkeley, CA

Software Engineer (Contract)

Jul. 2026 - Present

- Built a Go/Python platform with FastAPI, React/TypeScript, Docker, and Kubernetes to schedule distributed GPU training and batch inference across hybrid, multi-region cloud infrastructure.
- Owned delivery of carbon-aware orchestration for enterprise AI workloads, cutting carbon emissions **25–35%** and compute costs **15–20%** while meeting SLAs through fault-tolerant scheduling, monitoring, and performance optimization.

Berkeley RISELab

Berkeley, CA

Software Engineer

Feb. 2026 - Present

- Authored **5+** production PRs merged into SkyPilot's main branch (**9,500+ GitHub stars; 14M+ downloads**), extending multi-cloud backend services and Linux CLI tools.
- Co-developed and shipped distributed orchestration logic with Berkeley PhD researchers for large-scale compute workflows used by teams at **Meta, Shopify, and NVIDIA**.

CourseLynx

Remote

Software Engineering Intern

May 2026 - Jul. 2026

- Owned end-to-end full-stack development of production course ingestion serving **40K+ users** across **16+ university catalogs**, integrating React/TypeScript clients and REST APIs.
- Built fault-tolerant Python/PostgreSQL ETL pipelines with idempotency, retries, and logging, reaching **99.4% reliability**; reduced p95 latency from 820 to 510 ms through profiling, indexing, Redis caching, and batching.

Nutrio

Berkeley, CA

Founder & CTO

Dec. 2025 - Present

- Built Dockerized FastAPI services on AWS with PostgreSQL/Supabase authentication, subscriptions, and scan history, scaling the platform to **15K+ users** and **\$4.5K MRR**.
- Optimized AI/ML inference through prompt compression, caching, and constrained outputs; led 6 interns through Agile sprints, code reviews, monitoring, and production releases while driving 700K+ views and securing 3 gym sponsorships.

PROJECTS

PrimitiveBench | primitivebench.com (Official CalCompute Partner)

Apr. 2026 - Present

- Built a Python/FastAPI evaluation platform running 75+ versioned tests across 16 concurrent workers; cut suite runtime from 52 to 11 minutes using async scheduling, batching, bounded concurrency, and Redis caching.
- Designed multi-tenant PostgreSQL schemas and idempotent job APIs with retry/backoff queues, tracing, and CI/CD gates; supported 2 B2B customers and caught 11 preproduction regressions.

VaultCollection | vaultcollection.org (150+ Monthly Users)

Jan. 2026 - Present

- Built a Next.js/TypeScript portfolio platform processing 30K+ valuation snapshots for 150+ monthly users and \$2M+ in assets; kept p95 latency below 200 ms with indexed PostgreSQL queries and Redis caching.
- Containerized Node.js services and automated CI/CD with GitHub Actions, migration checks, retries, idempotent cron jobs, and 40+ tests for reliable external-data ingestion.

PM.ai | devpost.com/software/pm-ai (CalHacks Anthropic Track Honorable Mention)

Oct. 2025

- Built a React/TypeScript and FastAPI project manager converting briefs into persistent task graphs with PostgreSQL, pgvector, retrieval, and Claude API; improved structured-output validity from 62% to 80%.
- Reduced planning time by 20 minutes per project through typed REST APIs, schema-constrained generation, and unit/integration testing.

TECHNICAL SKILLS

Languages: Python, Go, Java, C++, TypeScript, JavaScript, SQL, Bash

Frameworks & Systems: FastAPI, React, Next.js, Node.js, REST APIs, PostgreSQL, Redis, Docker, Kubernetes, AWS, Linux, Git, CI/CD, backend systems, distributed systems, microservices

Engineering: Data structures, algorithms, object-oriented programming, system design, concurrency, data pipelines, unit/integration testing, debugging, performance optimization, observability, machine learning, cross-functional collaboration

HONORS

USACO Gold; 7x Math Regional Olympiad Medalist; World Mathematics Invitational Bronze Medalist; International Kangaroo Mathematics Olympiad Bronze Medalist; 3x Hackathon Winner