# Ganzorig Erdenebat

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## SOFTWARE ENGINEER

Software engineer with 6 years of experience specializing in back end, and scaling complex distributed systems. Skilled in designing, developing, and optimizing scalable and fault-tolerant solutions for complex infrastructures.

## PROGRAMMING SKILLS

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|---|---|---|
| **Languages:** Python, Elixir, JavaScript/TypeScript, Go | **Frameworks:** | Phoenix, Django, Flask, FastAPI |
| **Web:** React, Redux, CSS3/HTML5/SASS | **Web Services:** | REST, gRPC, GraphQL |
| **Databases:** PostgreSQL, Clickhouse, Redis | **Other:** | Git, K8s, Docker, AWS, GCP, Kafka, Elasticsearch |

## EXPERIENCE

- **Mux**, *Software Engineer* — *May. 2022 - Jun. 2023* | San Francisco, CA
  - Worked with data and real-time video team to build RESTful API that fetch and aggregate data from multi-region deployed services which helps real-time video customers to get usage details per session basis.
  - Replaced multi-tier usage based pricing with multi-dimensional usage based pricing logic without sacrificing the efficiency that enabled customers to be billed more accurately at video resolution based pricing.
  - Led the efforts of supporting Strong Customer Authentication requirement in the payment system and worked with cross-functional teams to reduce the payment failures which increased the payment success rate by 15%.

- **WithMe Health**, *Senior Software Engineer* — *Feb. 2021 - May. 2022* | San Mateo, CA
  - Led the design and implementation of a data model restructuring (FHIR to customized specification) that is used by the medical records to support ease of use and avoid complex data processing, which reduced single record size by 60% - 80% and reduced overall processing time by 20%.
  - Worked on the optimization efforts of the mobile applications (React Native) load time that involved refactoring API server and data fetching logic in the mobile application which reduced the load time by 45%.
  - Built new features to support interactions between pharmaceutical guides and patients with instant-messaging, patient call center and patient medical assessment system on the React.js web application.
  - Led the successful integration of third-party systems (Script Care, Consociate ...) and APIs to further enhance the data ingestion pipeline, enabling seamless data exchange and enhancing functionality.

- **WithMe Health**, *Software Engineer* — *Oct. 2019 - Feb. 2021* | San Mateo, CA
  - Worked on optimization efforts of the ETL pipeline, resulting in improved data processing efficiency, reduced latency, and enhanced scalability that resulted in 30% faster overall processing time.
  - Led the design and implementation of an internal framework to streamline software development processes and enhance code re-usability across projects which helped to increase the code re-usability by over 50% through standardized development practices.

- **Genius Plaza Inc.**, *Full-stack Developer* — *Aug. 2018 - Sep. 2019* | Miami, FL
  - Worked on successful conversion of a monolithic system to micro-services architecture resulting in improved scalability, maintainability, observability and deployment efficiency.
  - Performed database normalization and optimized SQL queries that helped to cut down overall query execution time by 45%.
  - Built and maintained responsive and user-friendly web application ensuring seamless user experience across various devices and browsers. Developed and integrated unit and automated testing system into the CI/CD pipeline to ensure reliability of the release.

## EDUCATION

- **Maharishi University of Management** — Fairfield, IA
  *Master of Science in Computer Science; GPA: 3.80* — *Oct. 2017 - Jun. 2020*
- **Mongolian University of Science and Technology** — Ulaanbaatar, Mongolia
  *Bachelor of Science in Software Engineering; GPA: 3.46* — *Aug. 2013 - Jan. 2017*