

Leading School of Medicine and Research Organization HIPAA Compliant mHealth System

ABOUT THE CUSTOMER

Located in Northern California, this leading school of medicine and research organization supports cutting edge genomics research to support personalized medicine results and related analysis. In 2018, the IT team supporting the organization's data, infrastructure and applications embarked upon a program to take advantage of cloud efficiencies. Their robust environment includes the use of Google Cloud and an on-prem infrastructure at scale.

THE BUSINESS PROBLEM

As the needs of health researchers grow to solve complex problems with data from the traditional and mobile centric world, the IT team needed to find an efficient and economical way to expand their storage, compute, and network infrastructure reach. Because of the sensitive nature of the datasets used in their research, there was also a need to maintain a secure and compliant IT infrastructure.

BIARCA SOLUTIONS

- mHealth systems migration from on-prem server infrastructure to Google Cloud.
- Re-architected to make use of Google Cloud's best in class, highly scalable and highly available compute, storage and network infrastructure and services.
- Extending platform support of mobile applications such as My Heart Counts App.
- Secured Integration support for data from 23andMe for it's participants.
- A multi-tenant platform with APIs for registering participants, survey and saving data gathered by mobile apps.
- HIPAA compliant.

TECHNOLOGIES USED

- Google BigQuery
- Google Kubernetes Engine (GKE)
- Google Container Registry (GCR)
- Google Cloud Storage
- PostgreSQL
- Single Sign-On system with RH-SSO and KeyCloak
- mhealth platform API's