

Pediatric Cloud Update

August 20, 2020

I hope this letter finds you happy, safe and healthy. I wanted to provide a brief update, as we continue to make progress on our vision of connecting 1,000,000 healthcare machines in all the children's hospitals in the world; through software and data, we transform children's healthcare locally and globally!

We've formed a world class team including some students from my cloud computing class at Stanford, colleagues from my time running Oracle's cloud computing business and new friends who share the in the vision. One of our primary objectives is to design in security and privacy. As such we've designed 28 security features and 7 privacy features into our edge cloud. The security features are beyond those offered by AWS and our privacy features have been engineered with the help of one of our team members who is an expert in GDPR. We're using GDPR as a guidepost since it's a superset of HIPPA, as our goal is to operate worldwide.

We're currently in the review process to see if we've missed anything; we completed our first review with the CTO and CMIO at Stanford Children's. In addition, the CISO of a large Fortune 500 Company has also reviewed our work and said, "the team has done a nice job thinking about the platform and it really shows!"

Most of our attention has been focused on our first release, internal code name "E46." The objective is to run a two-week test, which will include provisioning an edge server, integration with an ultrasound machine and the deployment of two edge applications. The first application is called CHAMBER and is a joint effort with Dr. Charitha Reddy @ Lucille Packard Children's Hospital (thanks Matt Lungren for the introduction). Charitha's vision is to build a shared database of echocardiograms to power the development of innovative AI diagnostic algorithms. The second application is focused on the clinical (or biomedical) engineer. In cooperation with Oomnitza, an ISV, we're demonstrating Oomnitza Clinical, an "ERP for clinical engineers".

We continue to enjoy support from the community. Check out the Pediatric Cloud TV Show at <https://www.precisionstory.com/share/2036>. You'll see four episodes featuring Dr. Anthony Chang, Chief Intelligence and Innovation Officer Children's Hospital of Orange (and the origin of the entire project); Dr. Matt Lungren, Associate Director at the Stanford Center for Artificial Intelligence in Medicine and Imaging; Brian Phelan, VP of Radiology Services at Siemens and Sherry Farrugia, Chief Operating & Strategy Officer at the Pediatric Technology Center at Georgia Tech.

We are super excited about the progress we've made to date and every day see how the vision is becoming a reality.

The Pediatric Cloud Team