CATAPULT HEALTH & QUANTUMIOT

A partnership in delivering real-time diagnostic healthcare consultations using scalable infrastructure, machine learning, and artificial intelligence

The CDC estimates that 53% of people with hypertension and 89% of people with prediabetes don't know it. Catapult Health is aiming to change that by breaking down some of the key barriers to preventive health checkups. They're offering quick and easy checkups at the workplace, including lab-quality blood diagnostics, and they're delivering lab results with tailored consultations in real time.

THE CHALLENGE

Find a way for Catapult Health to scale their technology infrastructure while adding data analytic and machine learning capabilities to ultimately offer their patients real-time, A.I. guided preventive health consultations at their workplace.

THE SOLUTION

- **Re-architect and build the networking, data, and software layers** to allow for more scalability, security, and efficiency.

- Build a **custom telecommunications solution** capable of managing bandwidth between multiple carriers to establish a secure and stable video connection independent of any onsite network.

- Innovate and implement **secure insurance card reader and image recognition technology** in the Cloud as well as other IoT devices.

- Automate **penetration testing**, implement **network monitoring** and **NOC as a Service** along with the full network redesign to increase security.

THE IMPACT

Catapult Health now has the architecture, infrastructure, and processes to scale in a robust manner, accommodating rapid growth. The system is designed to meet their needs several years into the future and is deployed to handle several thousand remote consultations per day.

Remote consultations have been substantially improved through an innovative wireless solution.

The implementation of additional IoT devices has allowed Catapult Health to refine and automate processes.

Privacy and data protection have increased at every level, exceeding many HIPAA and SOC2 security requirements.

THE VISION
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Catapult Health is pioneering warm, friendly, efficient consultations by nurse practitioners. The systems are now in place to investigate machine learning algorithms and rule-based artificial intelligence that could provide valuable insight into patients' lab results in real time. Catapult Health's nurse practitioners can immediately use this A.I. guided information to better inform their patients of potential risks to their health.

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> Partnering with QuantumIOT was the exact right decision. It allowed us to focus on our core business while they built the tech infrastructure we needed to scale.

Have a project in mind?

We'd love to help.

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Learn more at QuantumIOT.com

or email us at contact@quantumIOT.com

About QuantumIOT

We are a professional IoT services firm specializing in complex, end-to-end design and build projects.

We were founded on Jeff's Smith's vision of assembling an elite team of IoT engineers and data scientists whose experience spans every step of IoT project development, from hardware to telcom technology to data analytics and machine learning. Each member of the leadership team is highly accomplished and seasoned in his or her field. As a team, we're both agile and powerful, so that we can tackle the big problems that many enterprise companies face in executing their IoT goals.

Simply put, we help the world's best companies bring their IoT projects to life.