

Digital Therapeutics Platform

ADDRESSING CHALLENGES IN GLOBAL HEALTHCARE WITH DIGITAL THERAPEUTICS

SITUATION

- Historically, pharma efficacy and patient wellness is determined by several key factors that are difficult to effectively track
- Patients, caregivers, devices, medication profiles are not integrated in a patient-centric holistic fashion
- No current platform leverages AI algorithms that include adherence, patient wellness, social inputs and multi-med profiles for improved care

CHALLENGE

- Initiative was complex due to the orchestration between AI, devices, social considerations, patients and caregivers
- Ecosystem must include client and third-party devices
- Execute a global rollout of new platform to the European Union, Canada and the United States
- Solution must encompass chronic and acute care meds across auto-immune, infertility, behavioral/cognitive and others not typically tracked or combined for review

SOLUTION

- Guided and mentored program execution through org-level Agile and SDLC training
- Performed security assessment and architected secure dataflows and other controls
- Collaborated with client to implement AWS patient / physician cloud portals along with performant data ingestion and analytics
- Addressed interoperability issues on multiple supported devices including mobile
- Designed and implemented a robust and comprehensive automation framework with continuous system validation (CSV) for validation and software verification

RESULTS

- Successfully executed automation for formal platform validation and software verification
- Platform, while still in development, is targeted for FDA submission in 2024

ABOUT MEDACUITY

MedAcuity, a software engineering firm, partners with companies to address the business and technical challenges inherent in developing complex software-intensive solutions. Offering a combination of strategic consulting services focused on aligning product technology strategy with business goals and full lifecycle software development expertise, we accelerate the pace of innovation for leading companies and innovators in the MedTech, Life Sciences and Robotics industries. With over a decade of experience in software design and development methodologies for highly regulated and compliance-driven environments, our technical capabilities span all levels of software from embedded systems to mobile devices, the cloud and enterprise technologies.

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