TMA solutions

TMA Healthtech Center

Leveraging the latest technologies, we provide innovative solutions that address the different needs of the healthcare industry

15+ Years of Experience

Clients from **Australia, New Zealand, USA, Vietnam, Ireland, Sweden**

700+ Engineers

- AI & Health Data Analytics
- Healthcare Self-Services
- Telehealth
- Pharmacy Automation
- Disability Care
- Medication Management
- Nursing Home Management
- Senior Care Services
- Fitness Solution
- Device Integration
- Remote Health Monitoring
- Clinical Research Tools
- Home Care
- Health Kiosk
- Electronic Health Records (EHR)

Healthtech Services

Innovation Services

- Technical feasibility of new ideas
- Develop prototypes, proof-of-concepts
- R&D

Dedicated Healthtech Software Team

- Wide range of skills
- Flexible and scalable team
- Experienced in healthcare applications

Develop New Healthtech Solutions

- Develop innovative healthtech solutions based on latest technologies
- Custom software development

Maintain and Enhance Existing Applications

- Maintenance and supporting
- System integration
- Performance optimization

Porting and Migration

- Collect and migrate old data to support data analytics and AI applications
- Porting old applications to new technologies
- Migrate to cloud

Digital and AI Transformation

- Automate healthcare activities
- AI solutions to support new healthcare services

Areas of Expertise

AI in Healthcare

Data Extraction
- Devices screen
- Prescriptions

Predictive Analysis
- Sleep quality data analytics
- Atrial fibrillation detection using ECG

Health Trend Analysis
- Correlations
- Anomalies

Smart Camera

Healthcare Chatbot Solutions

Healthcare Data Analytics

Data Storage & Processing
- Efficient data storage for reliable access.
- Streamlined processing of healthcare data.

Data Ingestion & Transformation
- Integrate data from various sources.
- Transform raw data for analysis.

BI & Analytics
- Enhance visualization with BI tools.
- Support for descriptive, predictive, and prescriptive analytics.

Data Observability & Real-Time Monitoring
- Monitor data quality and flow.
- Real-time tracking of patient health.

Areas of Expertise

Remote Health Monitoring

Health Data Collection
- Wearables
- Medical devices
- Medical records
- Lifestyle activities

Vital-sign Monitoring
- Heart rate
- Blood pressure
- ECG
- Oxygen saturation
- Glucose levels

Instant Emergency Alert

Health Data Analytics

Device Integration

Various Experience
- Integrates over 50 wellness, medical, and fitness devices.

Connection Protocols
- Proficient in BLE, NFC, ANT+, 4G, Wi-Fi, ZigBee, and LoRaWAN.

Seamless Integration
- Ensures uninterrupted connectivity across diverse devices.

Data Integrity & Validation
- Maintains high data integrity standards.
- Ensures accuracy through rigorous validation processes.

Advanced Filtering
- Utilize intelligent filtering to extract relevant data effectively.

Telehealth

Connections
- Conferencing (Multipoint)

Data Integration
- FHIR
- HL7
- FHIR HL7
- DICOM

Virtual Consultation

Customizable Solutions

Real-Time Health Data Access

Patient Engagement Tools

EHR, EMR Integration

Home Care Remote Care

Remote Health Monitoring
- Real-time tracking of vital signs, sleep, and activities.

Telehealth Support
- Doctor consultations for home users.

Instant Emergency Alert
- Notify family members and doctors of abnormal health situations.

Medication Reminders
- Alerts for medications specific to health conditions.

Chronic Disease Monitoring
- Personalized monitoring and support for chronic diseases.

Areas of Expertise

Senior Care Service

Senior-Friendly Devices
Remote Health Monitoring
- Monitor data from wearables
- OCR medication papers
- OCR-enabled health devices

Emergency Alert & Data Sharing
- Family
- Medical Services

Telehealth
Medication Reminders
Chronic Disease Monitoring

Disability Care

Customized Software
- Tailored solutions for unique care needs.
- User-friendly design.

Assistive Integration
- Compatible with assistive devices.
- Enables remote monitoring.

Comprehensive Management
- Centralized records for effective care coordination.
- Communication tools for caregivers and families.

EHR

Patient & Medical History Management
- Tracks and stores patient records, including personal details, medical history, symptoms, prescriptions, and treatments.

Health Monitoring & Device Integration
- Collects vital signs from over 40 medical and wearable devices with automatic data collection.

Alerts, Reminders & Data Sharing
- Sends health alerts and reminders.
- Enables sharing with medical staff and families.

Telehealth & Analytics
- Enables video consultations.
- Utilizes AI for health data analysis.

Document Management
- Digitizes documents with OCR.

Medication Management

Prescription and Dosage Management
- Manages prescriptions and monitors dosages.
- Ensures patient adherence and tracks medication usage.

Medication Reminders
- Sends reminders to patients about medication timing and dosages.

Patient Profiles
- Stores patient information and treatment history for personalized care.

EHR Integration
- Integrates with EHR for synchronized medication and patient information.

Areas of Expertise

Nursing Home Management

Resident Management
- Profiles, admissions, discharges, and care plans.

Facility Management
- Room setup, resource allocation, and inventory management.

Staff Management
- Scheduling, training, and performance evaluations.

Access Control
- Secured access to the facility.

Remote Health Monitoring
- Real-time tracking of vital signs, sleep, and activities.

Health Kiosk

Device Connectivity:
- Medical devices
- Home devices

Telehealth
- Flexible booking doctors.
- Video call on Kiosk
- Data sharing to doctors
- E-prescriptions

Rapid Deployment Across Locations

Pharmacy Automation

Claims & Compliance
- Medicare claims, expense tracking, regulatory compliance

Medication Management
- Real-time tracking, prescription integration, AI safety checks

Safety & Monitoring
- Allergy alerts, dosage validation, automated compliance

Cloud & Connectivity
- Legacy migration, pharmacy network, scalable infrastructure

Logistics & Inventory
- Barcode scanning, real-time tracking, error reduction

Fitness Solutions

Device Integration
- Wearables
- Gym devices

Workout Performance Analytics
- Workout performance
- Body changes

Multi-Platform Access
- Various check-ins options
- Invoice management online

CRM
- Customized for gym

Virtual Fitness Class
- Virtual fitness class
- Online consultation

Clinical Research Tools

Clinical Research Tools
- Training site & Study staff
- Visit-by-visit guide
- Medical animation
- Patient education
- Pre-screen patients
- eDocument management
- Financial disclosure
- Biometric signatures

Patient Recruitment and Management
Site Selection and Management
Randomization and Blindings
Regulatory Compliance
Data Analysis and Reporting

Sample Solutions/Projects

AI for Healthcare	Health Data Analytics	Remote Health Monitoring
Device Integration	Telehealth	Home Care
Aged Care	Disability Care	Electronic Health Records (EHR)
Chronic Disease Monitoring	Medication Management	Nursing Home Management
Health Kiosk	Pharmacy Automation	Fitness Solutions
Clinical Research Tools	Healthcare Self Services	Petcare

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