

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



Booking



Telehealth



AI in Healthcare



EHR



Health Kiosk



Remote Health
Monitoring



Fitness
Solutions



Medical Device
Integration



Senior Care
Services



Medication
Management



Healthcare
Self-Services



Pharmacy
Automation



Clinical
Research Tools



Healthcare
Data Analytics





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

Medication Management System

- Prescriptions
- Dispensations
- Administration
- Monitoring

Inventory Management

Barcode Scanning

Electronic Signing

Communication Channel



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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