





Modern cardio healthcare platform



Team Composition:

3 Senior Engineers, 1 Project Manager



Project Duration:

6 months (fixed scope) & ongoing support phase



Tech Stack:

Angular, Node.JS,

Project Overview

Heartbeat Health is a digital-first cardio platform transforming cardiovascular care for high-risk individuals. It enables early risk detection, remote diagnostics, and virtual treatment through smart device integration, EMR access, and on-demand consultations—anytime, anywhere.

Business Challenges

- Data Security & Confidentiality: Handling sensitive health information required HIPAA-compliant architecture and secure data transmission.
- Stable Communication Channels: The platform needed to support emails, video calls, chat, and third-party device integration without latency or disruption.
- User Experience: The UI had to be intuitive, easy to navigate, and optimized for remote medical interactions across diverse user groups.

Solutions Delivered

- HIPAA Compliance & Stripe Payments: Ensured all data remained secure and transactions were safe for users by integrating HIPAA-compliant standards and Stripe for digital payments.
- Integrated Communication Tools: Employed WebSocket for efficient, real-time communication, and integrated MailChimp for reliable email functionality.
- Modern User Interface: Built with HTML5, jQuery, Bootstrap, and Less, the application featured a context menu system for easy navigation and deployed on Heroku for high performance.
- **EMR Integration**: Integrated Athena EMR to streamline access to patient records and support real-time care management and reporting.

Results & Impact

- 25% drop in CVD-related hospitalizations and unnecessary diagnostics
- Effective virtual-first care: same-day echos and remote diagnoses
- Better healthcare access and improved patient experience
- Potential to save 46,000 lives annually through proactive hypertension care

Conclusion

Heartbeat Health, built with Techverx, delivers secure, digital cardiology care—bridging gaps and enabling scalable, virtual-first healthcare.

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