

Innovative Wearable Devices/Products Company

UK-based products company partnered with Stanra for Architecture, Design, Development, Publishing and DevOps of their wristband-based fitness application involving complex analytics.



With the rise in wearable tech and multiple apps now measuring health data, the applications aggregating health information need rapid scalability to succeed.

Challenges

- High availability, performance and scalability requirements
- A very innovative product with continuously evolving requirements
- Real Time analytics and dashboards

Solution

Product Development:

- Created the Architecture and design of the server on microservices and Amazon Web Services Lambda
- Developed the Analytics Module for continuous aggregation, summarization, correlation and regression
- Design and development of Admin Module using React JS
- Development of React Native mobile app comprising more than 60 Screens along with integration with native SDKs provided by the manufacturer.
- Ability of the Mobile app to preserve data and remain functional even if there is no connectivity with the server
- Real-Time dashboards

Technology:

Microservices, AWS Lambda, Neo4J, DynamoDB, React Native, React JS, Java 8, Spring Boot

Innovation

- Health Analytics – Heart Rate Pattern, Sleep Pattern, BMI etc., and correlation analysis over time scale. Real Time Dashboards
- DevOps: Application code build and release automation using AWS Opsworks

Benefits

- Engineering application for over 100K concurrent user load.
- Seamless customer experience through powerful health analytics.
- A very optimal serverless architecture
- Automated devops cycle with minimal operating costs

Result Highlights

Real time analytics and dashboards

Well-Architected Serverless Infra

Ability to Handle Over 100k Concurrent User Load