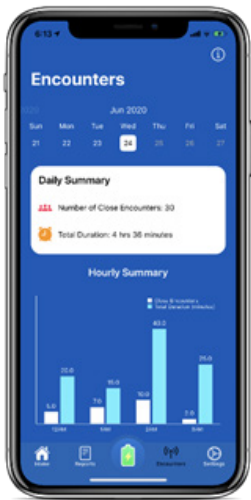




PocketCare S Technological Advances

Here is how our technologies help solve problems.

PocketCare S is a Bluetooth Low Energy (BLE) based solution that enables smartphones to send and receive beacon signals. It enables your smartphone to detect and record other PocketCare S users who are within 2 meters from you. PocketCare S has overcome many technical challenges and thus, has several advantages over other apps for detecting close encounters.



Full Android and iOS Interoperability

1 For an Android phone to discover an iPhone and vice versa, other apps will use IDs which can reveal the identity of the phones. PocketCare S achieves interoperability with a privacy-preserving virtual bluetooth name.

24/7 Operation in the Background

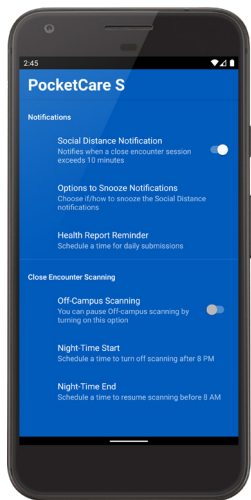
2 Since an iOS app running in the background will not emit Bluetooth signals as usual, other iOS apps will not work properly in the background or when both iPhones are not in use. PocketCare S enables iPhones to discover and be discovered by other nearby phones all the time.

Reliable Information on Close Encounters

3 The distance between two phones measured using Bluetooth signals is not highly accurate. Other apps may mistake a user 10 feet or more away as being a "close encounter" and thus, are unable to provide reliable information on both the number and duration of close encounter sessions. But PocketCare S can.

Privacy Preserving Information Report

4 All apps make tradeoffs between user privacy and information utility (how actionable the information is). PocketCare S is one of the earliest server-based approaches and has the unique ability to provide both temporal (e.g., hourly stats) and spatial (e.g., on/off campus) information useful for users, campus administration, and public health officials, while protecting user privacy.



Read More About How PocketCare S Can Be Used

5 With privacy protection and many useful features, users will likely opt-in without being required to use PocketCare S. However, an organization may also require the use of PocketCare S to support mandatory daily screening and contact tracing operations.

For more information on PocketCare S and its privacy and security features, please visit the website and/or contact us.

[POCKETCARES.CSE.BUFFALO.EDU](https://pocketcares.cse.buffalo.edu) | CSE-POCKETCARES@BUFFALO.EDU

[QUICK FACTS]

APP AVAILABILITY

Android: Play Store
iOS: Apple's Enterprise Program

SECURE SERVER

Maintained by UB CIT

CAMPUS SPECIFIC DATA

Can be shared by UB CIT along with an analytics dashboard for each campus.

DEPLOYMENT

Either mandatory or opt-in.

ADMIN FEATURES

- Daily health screening results
- Aggregated hourly and daily stats (in real-time)
- Number of users on campus
- Number of close encounters on campus
- Duration of each close encounter on campus

USER FEATURES

- User friendly interface
- Daily health report reminders
- One's own hourly and daily close encounters
- One's own duration of close encounters
- Social distance reminder
- Health tips
- Other useful links