**⏰ Crypto Alarm Clock**

**Crypto Alarm Clock** is a simple system that makes your iPhone **ring like a real alarm clock** when a cryptocurrency (e.g., BTC/USDT) crosses your target price. Unlike push notifications, this solution uses **actual phone calls** so you can’t miss it.

Et bilde som inneholder tekst, skjermbilde, diagram, Font

KI-generert innhold kan være feil.

**🚀 Problem**

Most crypto apps only send **push notifications** for price alerts. These are too quiet or easy to ignore, especially while sleeping.  
We need something louder, unavoidable, and reliable → like a **phone call alarm**.

**🎯 Goal**

* Trigger a **real alarm call** to your iPhone when crypto prices cross set thresholds.
* Build it as a lightweight MVP (under 100 lines of Python).
* Run it 24/7 on a cloud server.

**🛠 Tech Stack**

* **Python** → core logic.
* **Binance WebSocket API** → real-time crypto price data.
* **Twilio API** → phone call alerts.
* **Cloud Hosting** → (Heroku, Railway, or AWS) for continuous operation.

Optional Extensions:

* Flask/Django for a simple **dashboard**.
* PostgreSQL / SQLite for **alert storage**.
* SMS fallback, push notifications, or multiple asset support.

**📐 System Design**

**Flow:**  
Binance WebSocket → Python Script (alert logic) → Twilio API → Phone Call → iPhone Rings

1. Connect to Binance WebSocket stream for live price updates.
2. Compare live price against user’s target threshold.
3. If price crosses threshold → call iPhone using Twilio.
4. Alarm rings (can play sound file or text-to-speech).

**✅ To-Do**

**Setup**

* Create Binance account + get API key.
* Create Twilio account + verify phone number.
* Choose cloud host (Heroku, Railway, AWS).

**Development**

* Connect to Binance WebSocket API for BTC/USDT.
* Implement alert logic (threshold detection, cooldown).
* Trigger Twilio call with alarm sound or TTS message.

**Deployment**

* Package into lightweight Python script.
* Deploy to cloud and keep process alive 24/7.
* Test with real phone calls.

**📦 Example MVP**

python alarm.py --pair BTCUSDT --target 60000 --phone +1234567890

When BTC crosses $60,000 → your iPhone rings.

**🔮 Future Improvements**

* Multi-asset monitoring.
* Web dashboard for alert management.
* Custom ringtones & scheduling (e.g., only at night).
* Redundant alerting (SMS, email, push).

⚡ This project proves that crypto alerts can **wake you up like a real alarm clock** — not just buzz quietly in your notifications.