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PROTECTING SMART
RIGHT FROM THE START!

KAVACH IoT Security

Kavach IoT Security

Security and Investigation

Mumbai, Maharashtra

Kavach: Shielding Cyber

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About us

As a Hardware Security Engineer, I specialize in uncovering the intricate layers of physical and embedded systems to uncover vulnerabilities before adversaries can exploit them. I specialize in techniques such as firmware extraction, side-channel attacks, glitching, fault injection, black-box analysis, UART/JTAG debugging, and reverse engineering PCB and chip-level architectures. The goal is to bridge the gap between hardware and cybersecurity — ensuring that from the silicon to the software, every layer of an IoT device or embedded system is resilient against real-world attacks. My passion lies in not just finding vulnerabilities but deeply understanding how hardware operates, how it can fail, and how security can be woven directly into its design. The logo represents this mission: • The shield for protection and defense, • The microchip for embedded systems, • The magnifying glass for in-depth vulnerability research, • The soldering iron for real-world hardware

interaction and exploitation, • The circuit paths for connectivity and complexity in modern IoT ecosystems. In a world rapidly moving toward billions of interconnected devices, hardware security is not optional — it's foundational.

Website<https://www.linkedin.com/in/shrrra1/>**Industry**

Security and Investigations

Company size

2-10 employees

Headquarters

Mumbai, Maharashtra, India, Maharashtra

Type**Employees at****Shravan Sin**[See all employees](#)**Locations**

Primary

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Vitika Prakash Mahto

2mo

Marketing Genius 💡: Cadbury 🍫

How Cadbury Dairy Milk Turned “Kuch Meetha” into Itself 💖

Today I saw a dad buying a Cadbury for his son.

Reason? He just scored amazing marks in his 10th boards. 📄✨

No cake. No big celebration.

Just one line:

“Chal, isi baat pe kuch meetha ho jaaye.”

And that got me think

This line existed in In

A cultural reflex for e

But over time, somet

“Meetha” didn’t stay

In most people’s hea

That’s what they nail

Not selling chocolate

So now it’s not even

Good news → Meetha

Effortless. Automatic

That’s not just brandi

That’s becoming part

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#Marketing #Branding #Cadbury #advertising

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Vitika Prakash Mahto

4mo · Edited

Marketing 📊 vs Advertising 📺 vs Sales 💰

Marketing, advertising
jobs.

📈 Marketing is the t
positioning the produ

📺 Advertising is one
content, and campaig

💰 Sales comes in on
trust, and decision-m

So when I say I work
the product is for, wh
shapes advertising al

#marketing #innov

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Shravan Singh Rathore

5mo · Edited

I walked into a “smart” **trial room** to try something very... personal 😊

Underwear level per

Door closed.

Lights on.

And suddenly a screen

“Touch the screen to

Bro... I came here to

Then it gets better.

The screen already k

It showed the exact i

“Bring me this item.”

So while I’m checking

a system is tracking v

Behind that fancy mi

- a touchscreen
- a mini computer
- a network connection
- and software talking to the store backend

Which means the trial room is no longer just a private space.

It’s a data collection zone.

And then I **Noticed** something even more interesting 🧐

A **USB** female port was literally hanging out from behind the screen.

Yes, that blue USB you see in my hand in the photo.

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That's not decoration.
That's a maintenance and data interface.

In simple words:
this mirror is a computer, and someone forgot to hide the keyboard port.

Cool tech? Yes.
Slightly scary? Also yes.

Why this is not paran

This exact kind of tec

- Hidden trial room c
(USA - **Rebecca Min**

- Live changing room
(China, South Korea,

- Body and face data
(EU - **H&M**, **ZARA** ur

- Store staff misusing
(Japan & South Korea

All of this came from
Smart mirrors + cam

So yeah...
Next time you step into a "smart" trial room, remember:

You might be trying clothes.
But the system is trying to know you.

**#CyberSecurity #PrivacyMatters #SmartStores #IoTSecurity #RetailTech
#DataPrivacy #EthicalTech #TechInDailyLife**

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So today I was brushing  my teeth, and I was like, "Wait, something...
The toothpaste I use every morning is actually a night toothpaste. 🤔

My first thought wasn't "oops."
It was: bro... will it have negative effects? 🤔

Naturally, I went down a mini rabbit hole.
Is there some hardcore science behind day vs night toothpaste? 🤔
Different powers? Different missions?

Turns out... not really. 🧑🏻♀️

Tiny ingredient differences, sure.

But the real magic? Marketing 🪄

Same habit. Same bathroom. Same me.

But now the brand has me thinking I need two toothpastes to be a responsible adult.

They didn't change my teeth.

They changed my routine. 🧑♀️

And that's when it hit me — marketing isn't always loud campaigns or big ads. 🗣️

Sometimes it's quietly convincing you that your morning toothpaste is wrong.

MBA in marketing really makes you overthink life.

Even brushing your teeth isn't safe anymore 🧐🪄

[#marketing](#) [#obsession](#)

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Vitika Prakash Mahto

6mo

When I started my MBA, I honestly thought, "Why am I studying Finance, OB, HR or Analytics? I'm from M...
But slowly, class by class

It wasn't like school where
These courses actually
beyond campaigns, but

- 💰 Finance showed me
- 🧠 OB made me notice
- 👂 HR helped me understand
- 📈 Analytics taught me
- ⚙️ Operations showed
- 🔗 Strategy made ev

Today, I realise marketing
It's part of a much bigger
picture every single day

#marketing #mba

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Shravan Singh Rathore

8mo

Ever noticed the tiny text flashing on the digital indicators inside **Mumbai Local Trains**?
Something like:

Address-01L
Sw.ver-2.04

Most passengers ignore it, and your brain probably lies to you.

Here's the thing—those

Address-01L

This is the network address and communication bus.

Each panel is a node. It pushes configuration updates.

It's basically a MAC-t

Sw.ver-2.04

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or IoT firmware,

rain's internal

a dead screen, or
they're talking to.

That's the firmware version running on the microcontroller inside the display.

Why it matters:

- Tracking bugs
- Checking compatibility
- Rolling out fixes across hundreds of coaches
- Auditing old builds during security reviews

In **IoT Security**, we see this daily. Hardcoded firmware, unpatched versioning, device enumeration... and when scaled across entire city networks, this becomes critical infrastructure security.

What this really means is:

Even something as ordinary as a local train quietly runs on embedded systems, firmware logic, network addressing, and strict version control.

Security teams often focus on web, cloud, and apps, but the real world runs on Hardware that never asks for attention... until it breaks.

Next time you travel, look around.

Cybersecurity isn't always behind a screen.

Sometimes it's printed right above your head on a rattling suburban train.

#CyberSecurity #E
#FirmwareAnalysis
#ThreatModeling #
#PublicTransport #
#DigitalSecurity #
#DeviceSecurity #
#CyberThreats #E

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Shravan Singh Rathore

9mo

CVE-2025-10546

Back in March, my friend and I discovered a vulnerability in the **Broadband** HomePower router's diagnostic page. We observed unusual behaviors, and soon after, we identified the router's diagnostic page as the entry point for the attack.

A simple **Payload** like

```
<script>alert(1)</script>
```

was enough to exploit the router. Impact? Session hijacking, turning the router into an attacker, and more.

We went the full route: proof of concept, video POC - and shared it with the vendor.

What I truly appreciate is the professional coordination and support from the vendor's security team.

Now, it's official:

- ✓ Published on CERT-In: CIVN-2025-0215 <https://lnkd.in/d6vQZWta>
- ✓ Public CVE: CVE-2025-10546 https://lnkd.in/dqa59h_r

For me, this achievement isn't about "one more CVE ID."

It's about the journey - from spotting a small bug, proving its impact, disclosing responsibly, and working with teams who genuinely care about security.

Big thanks to Amey for collaborating on this and to CERT-In for closing the loop.

Every CVE reminds me why I chose this field: making connected devices safer for everyone.

#CyberSecurity #IoTSecurity #HardwareSecurity #VulnerabilityResearch

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10mo

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 Today, Mumbai is
Crowds everywhere -
Morya 🙏🙏" echoing

s of "Ganpati Bappa
...more

or

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10mo

This morning felt like a true Mumbai monsoon commute.

The **Rain** had just started, and it was the usual mad rush.

I grabbed one handlebar, squeezed my way on the Western line, and took a little on the way to **T**.

On the screen, instead of a map, I saw:

- ♦ Limit Nearby Sharing
- ♦ Turn off Bluetooth

In that chaotic moment, amidst the packed local, these small choices felt like a lifeline.

For a city that moves so fast, it's about safety, digital and otherwise.

Sometimes, the biggest changes are the simplest.

#MumbaiLocal #CyberSecurity

rain finally came, it

ut, squeezing my way through the crowd eased a bit of the unexpected.

grand stage. Even in

t create a culture of

StepsBigImpact

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Multiple **Vulnerabili****stems** January 2025 → All

- ♦ This journey started with extracting the Firmware, soldered the chip back, and used logic probes ensuring every version showed progress.

 Firmware Evolution

- ♦ FIRST Firmware
 - 🧱 Contained cleartext Wi-Fi configuration, hardcoded superuser credentials, private key exposure, and embedded MQTT secrets.
 - 🔒 High risk of unauthorized access and device compromise.
- ♦ Second Firmware
 - 📦 Vendor patched plaintext credential storage and removed some MQTT broker details.
 - ✅ Security improved, but private keys and Wi-Fi data were still exposed.
- ♦ Final Assessment
 - 🔒 Despite repeated improvements, hardcoded private keys and cleartext Wi-Fi storage remained unresolved.

AND flash and
ng, I even re-
re with testing
lly verifiable.
volution. Each
ry.

or

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📢 Disclosure escalated to **CERT-In** , leading to official advisory: <https://lnkd.in/dZU97ibv>

🔍 Vulnerabilities Disclosed (ZKTECO Device)

- ◆ Cleartext Storage Vulnerability (CVE-2025-54464)
- ◆ Hard-coded Credentials Vulnerability (CVE-2025-54465)
- ◆ Hard-coded Private Key Vulnerability (CVE-2025-55279)
- ◆ Information Disclosure Vulnerability (CVE-2025-55280)

🤝 Collaboration NOTE

- ◆ The vendor remained supportive and engaged throughout the disclosure journey providing firmware updates, assisting in validation, and coordinating on fixes. At times, the impact was understandably downplayed as being “less likely in real-world use” since these devices are often deployed indoors.
- ◆ Nevertheless, their collaboration ensured that the vulnerabilities were fully addressed.

📢 Official Disclosure

🔗 CERT-In Advisory:

📅 Published: August

🔒 This journey is a reminder of the importance of removing hardcoded protection.

#ZKTeco #IoTSecurity

#ResponsibleDisclosure

#HardwareHacking

#InfosecCommunity

#ZeroDay

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ensured that the

is layered protection,
firmware

ckerNews
#BlueTeam

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