

# Vibe Coding for Tech Coordinators.

## *(and everyone else too)*

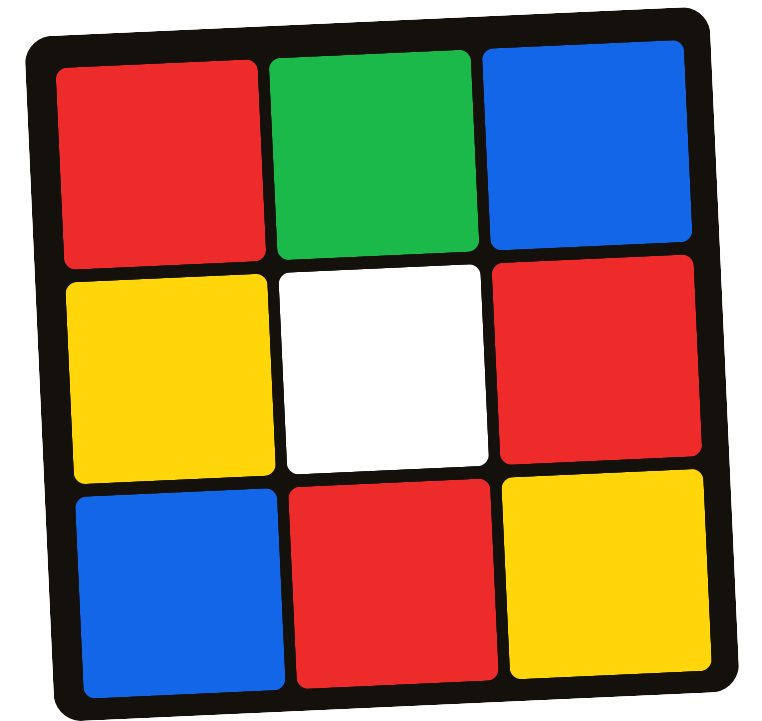
Turning ideas into working tools at the speed of AI.

[ slides: [canva.link/thedailycube](https://canva.link/thedailycube) ]

★ Hands-on

No prior coding required

Bring an idea



[thedailycube.web.app](https://thedailycube.web.app)

PRESENTED BY

**Jennifer Davis**

*Tech integrationist · Mom · Vibe coder*



★ INTERACTIVE · 5 MIN

# What's sitting on your desk?

Think → pair → share. The smaller and simpler, the better.

Trackers, Reminders, Counters, Forms...

Device check-out  
tracker and  
barcode scanner

Device damage  
record

Sign up form

Help Ticket tracker

Server uptime  
status board

Subscription renewal  
dashboard

★ A TRUE STORY

# Head to Gemini

*I'm not a professional developer.*

---

Let's Try Gemini's Canvas



Hi Jennifer

Where should we start?

Let's write or build together

+  Canvas ×

Thinking  

 Create image

 Create music

Boost my day

Write anything

Help me learn

★ A TRUE STORY

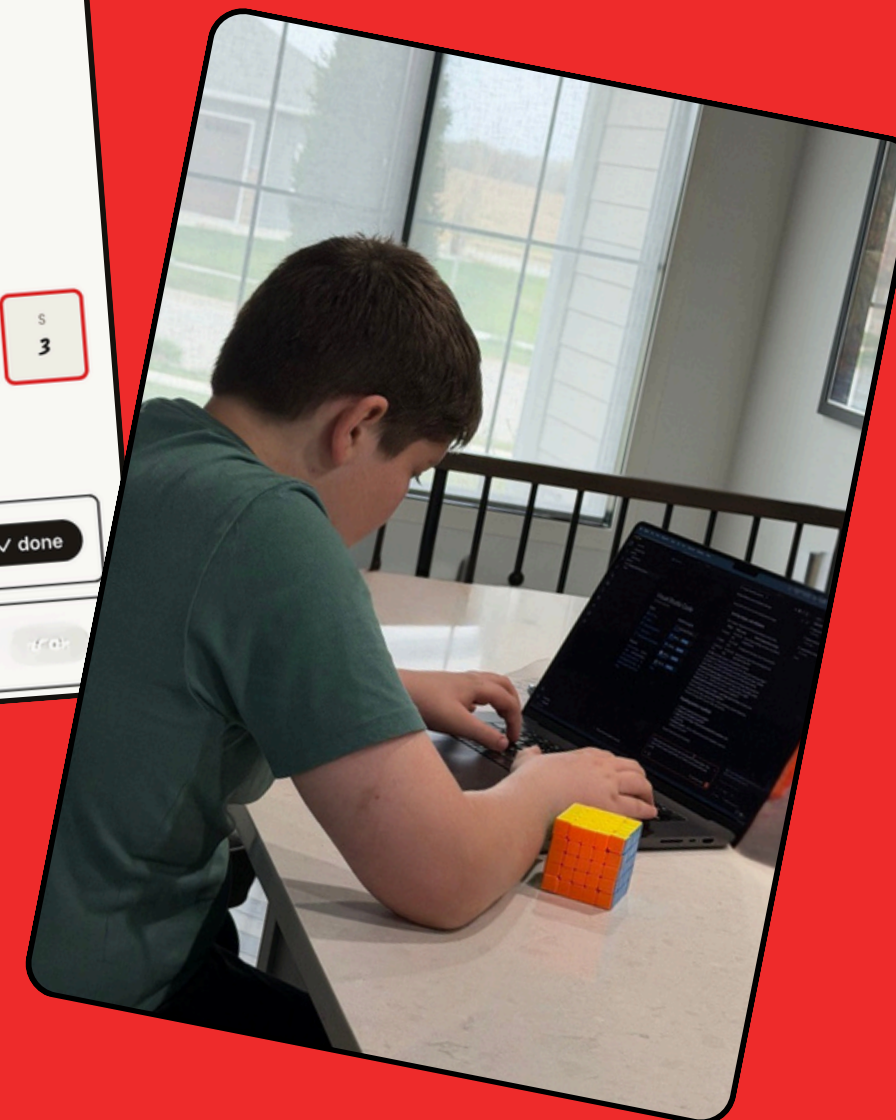
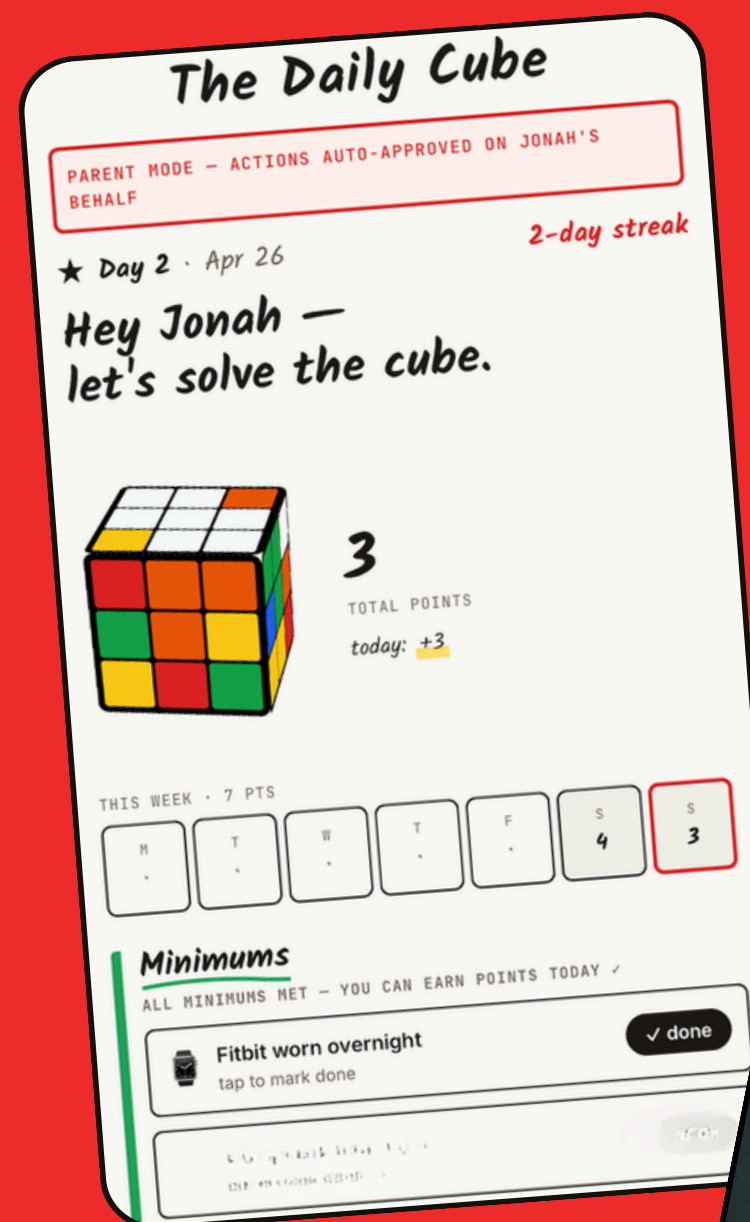
# I built this for my kid in one afternoon.

*I'm not a professional developer.*

This is **The Daily Cube** — a behavior tracker for my son. Jonah virtually solves a Rubiks Cube by earning points with good habits.



CHECK IT OUT · 3 MIN  
[thedailycube.web.app](https://thedailycube.web.app)



vibe coding · for tech coordinators



SECTION ONE

# What is vibe coding?

It's the future of app development and will become an essential new skill across many areas of expertise.

SHIFT 01

**Scope → Dialogue**

You describe what you want. The AI drafts the first try. You describe your changes. Repeat.

SHIFT 02

**Build → Assemble**

Implement Authorizations, database, and hosting. The AI guides you through the whole process.

SHIFT 03

**Use it → Revise**

You can always tweak your code and customize it exactly as you need it to be.





★ THE FUN PART

# You picked a good time to be curious.

A FEW YEARS AGO

## The old way

Scripting by hand and hoping we don't break something.

TODAY - YES, REALLY!

## The fun way

You describe it. The AI writes it and deploys it. From an idea to live website in an afternoon.

my favorite tools →

Claude

Codex

Google AI Studio

Firebase

VS Code

*vibe coding · for tech coordinators*



PART TWO

# What makes a good first project?

Pick something so small you'd be embarrassed to write a project plan for it. That's the right size.

■ ■ □ *small & specific*

CHECKLIST · WHERE DO I START?

## First-project rules

- ✓ **Small.** One screen, one purpose.
- ✓ **Useful Monday.** You'd actually open it.
- ✓ **No SIS integration** required (yet).
- ✓ **Low-stakes failure.** Nobody gets hurt if v1 is ugly.
- ✗ **Not "rebuild PowerSchool."**



THE PROCESS

# The 5-phases to build.

Same five steps, every time. The Daily Cube was built this way.  
So is everything else.



**Describe**

*say what you want.*



**Choose**

*low-maintenance stack.*



**Scaffold**

*AI drafts the bones.*



**Iterate**

*talk to it. fix things.*



**Publish**

*public URL. day one.*



1

PHASE ONE

# Describe

exactly what you want

---

The development of the cube aspect was collaborative. My son was very particular about the mechanics of the solving algorithm.

PASTE · PROMPT · GO

## This prompt got us started...

"We are going to design a web app for my son to track behavior points. He gets one point for sleeping 8 hours..." Rubik's cube metaphor. Daily activities earn points. Parent approves submissions. Rewards unlock at thresholds.

---

[bit.ly/DailyCubePrompt](https://bit.ly/DailyCubePrompt)



BEFORE WE GO FURTHER

# Sometimes one .html file is all you need.

STEP 01 · ASK AI

"Make me a ..."

```
<!-- hello.html --> <h1>Behavior  
tracker </h1> <button  
onclick="alert('+1')"> Did the thing  
</button>
```

STEP 02 · SAVE

One file. On your desktop.



hello.html

STEP 03 · OPEN

It's an app.



that's it. bookmark it.

- **Outgrow it?** Then we talk about a **stack**.



BEFORE WE GO FURTHER

# Vocab Field Trip

TEST YOUR KNOWLEDGE

[thedailycube.web.app](http://thedailycube.web.app)

## The Daily Cube

Sign in →

A SCREEN-TIME + BEHAVIOR SYSTEM FOR FAMILIES

# Solve the cube. Unlock the rewards.

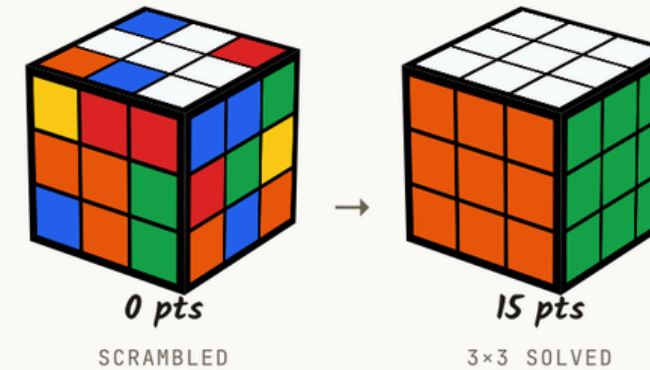
Daily quests turn into points. Points solve a Rubik's cube. Each milestone unlocks a reward you set — screens, privileges, whatever your family agrees on. When the cube is solved, the rules renegotiate.

[▶ Try the demo](#)
[📖 Coding Vocabulary](#)
[✔ Practice the cube](#)

[✦ Request Access](#)

NO SIGNUP NEEDED FOR THE DAILY CUBE GAME, OR PRACTICE

### How the cube fills



✔ TRY IT LIVE →

TAP TO DRAG A SLIDER AND SOLVE THE CUBE YOURSELF



## Coding Vocabulary

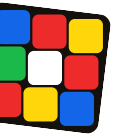
match terms to definitions · cube-themed game

play →

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2

# What are the commonly used “stacks?”



You build **what people see** (React), **style how it looks** (Tailwind), **store and manage data** somewhere else (Firestore), and then **put the whole thing online** so anyone can access it (Firebase Hosting).

LAYER 01

## Frontend

### React + Vite

What the user sees.

React is the standard; Vite is used to speed up development.

*free · open source*

LAYER 02

## Styling

### Tailwind

Style design.

All tools speak Tailwind fluently. It provides pre-built CSS.

*free · open source*

LAYER 03

## Backend

### Firebase

User authorization + data storage.

Firestore (database).  
No servers!

*free tier · generous*

LAYER 04

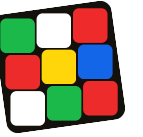
## Hosting

### Firebase Hosting

Quick setup → public URL.

Progressive web app (PWA = phone-ready) out of the box.

*free · forever (mostly)*



PHASE THREE

# 3 Choose where you work with AI.

Three on-ramps to get your code up and running.

PATH A

## Browser only

### Google AI Studio + Firebase Studio

Describe → it builds → it deploys.  
Nothing to install. Click “Open in  
Firebase Studio” to keep going in a  
live browser editor.

✓ easiest ✓ zero install ✓ one-  
click deploy

PATH B

## Local IDE

### VS Code + Claude/Codex/Gemini

The IDE on your laptop, with an AI  
assistant in the sidebar. More  
control. More steps to set up.

✓ best long-term ✓ git, history,  
polish ✗ requires install

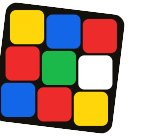
PATH C

## Chat + paste

### Claude.ai, Gemini, or ChatGPT

Ask for a code snippet. Paste it  
into a file. Run it. Great for one-off  
tools and quick automations.

✓ zero install ✓ great for very  
small scripts ✗ no live preview



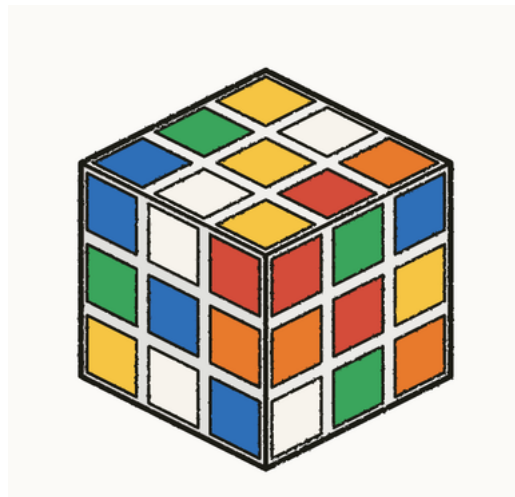
PHASE FOUR

# 4 Iterate conversationally.

The new coding skill is simply to be able to describe what you want and articulate how to fix what doesn't match. Getting good at vibe coding means noticing what's off and describing the fix.

V1 · UGLY BUT LIVE

**Before**

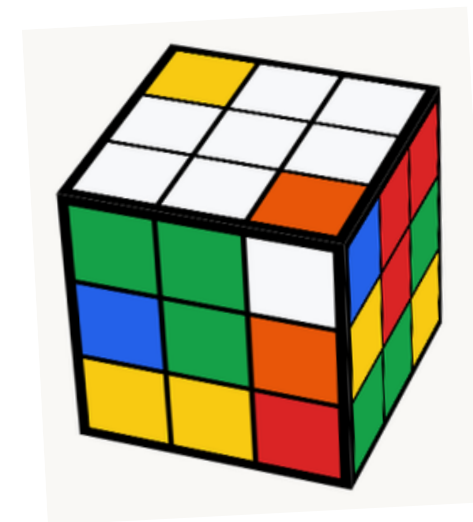


close — but my son said it didn't look enough like a real cube.

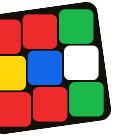
▶ **PROMPT**  
“make it look more like a real Rubik's cube”

V2 · 4 MINUTES LATER

**After**



thicker borders. crisper stickers. now it's a cube.



PHASE FIVE

# 5 Publish it.

**Biggest and best tip:** if you're confused or don't understand what you need to do next, force the AI tool to break down the steps. Don't be afraid to tell it you don't understand!

STEP 01

## Run

```
$ firebase deploy
```

in your terminal. or click "deploy" in the browser.

STEP 02

## Receive

[thedailycube.web.app](https://thedailycube.web.app)

a public URL. SSL included. share it with anyone.

STEP 03

## Install

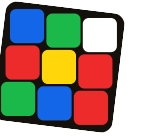


Add to Home Screen

PWA. icon on the phone. feels native.



The Daily Cube was live for Jonah on the same Saturday I started.



## Connect Firebase

Auth + Firestore — one-click setup.

★ THE RECIPE · PATH A

# Google's AI Studio

The browser-only path!.

### 1 Open Google AI Studio

[aistudio.google.com](https://aistudio.google.com)

### 2 Click "Build"

Describe your app in plain English.

### 3 Let it generate the code

Wait 30–60 seconds. Don't peek under the hood.

### 4 Select Your Design in the Build Window

A live browser-based editor for your code.

### 5 Edit the Design - chat or the edit button

Auth + Firestore — one-click setup.

### 6 Check the Share and Publish Menus!

Walk through the steps and ask the bot for help if needed!

### 7 Ask for additional functionality

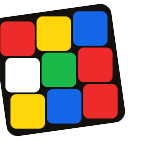
Do you want users? Do you want to track info over time?

### 8 Click Publish → public URL

done. share it. you're published!



Total time: a working prototype in under an hour.



SIDE NOTE · FOR THE CURIOUS

# What's the CLI?

Many average users aren't aware that the CLI can be used to log into AI tools

*looks like this*

ACRONYM

**C.L.I**

Command Line Interface

---

A text window where you **type commands** instead of clicking.

It operates in the folder where you are working and can read and write files directly where you are.

```
~ /the-daily-cube

npm install -g @openai/codex
  → installing codex on your computer
codex login

npm install -g @google/gemini-cli
  → installing Gemini's code tool
gemini login
```



# Lessons from The Daily Cube.

Things I'd write on the back cover of this notebook.

## LESSON 01

**AI asked us great questions that made the app engaging.**

---

The cube animation parallels actually solving a cube. Without that, it was just a checklist app. My son became way more interested.

## LESSON 02

**Firestore was fast and easy for this.**

---

the \*\*.web.app hosting is really cool!

## LESSON 03

**Allowlist: email address authorization.**

---

The only allowed users are in our family, until I generalize it and open it up for others.

## LESSON 04

**Sometimes you really have to break down what you're saying to AI.**

---

My son spent 30 minutes explaining how to translate the cube-solving algorithm into effective visuals.

## LESSON 05

**The demo-fork trick.**

---

I told the AI to make a version for the public to play with as a demo.

CHECK IT OUT · 3 MIN

[thedailycube.web.app](https://thedailycube.web.app)

# Your turn. Let's talk.

What's the one thing on your desk you'd build first?

## YOUR TURN

### Share Out

- 1 **What will you build?**
- 2 **Who would use it?**
- 3 **What's the first prompt?**  
Describe it in five sentences, like Phase 1.

*go solve something. ✦*

## QUESTIONS

### Ask me anything.

About the cube, about your stack, about where to start tomorrow. Skeptical questions especially welcome.

## STAY IN TOUCH



[jdavis@esu1.org](mailto:jdavis@esu1.org)

[ slides: [canva.link/thedailycube](https://canva.link/thedailycube) ]

**PRACTICE THE CUBE**  
*thedailycube.web.app*

*5 minutes to chat. Then we'll hear a few out loud.*