Lessons Learned: Take-Home Pay Calculator PWA Deployment

1. Git and File Structure Issues

- Avoid using OneDrive or synced folders for Git projects

- Use a clean folder path like C:\Projects\take-home-pwa

- Always `.gitignore` OS and personal folder paths

2. PWA Packaging Challenges

- Ensure `manifest.json` is accessible at root or /static

- Confirm icons are real, properly linked PNGs

- Keep `index.html` with Flask logic inside `/templates`

3. Manual File Moves Outside Git

- Avoid drag/drop of critical files without tracking via Git

- Always verify with `git status` before committing

4. Git Pull Before Push

- Always do `git pull origin main` before pushing changes

- Prevents branch conflicts and rejected commits

5. Render + Flask + PWA Builder Issues

- Confirm `manifest.json` and `icon-512.png` load in browser

- Fix template logic errors when using Flask with static delivery

- Render.com expects the correct startup path and folder structure

6. Recommendations for Future Projects

- Use `.gitignore` early to keep repo clean

- Automate README and release notes

- Add GitHub Actions to validate manifest & service worker

- Consider a project checklist or script for packaging