

Logo Optimization Summary

Issue Identified

The CareLinkAI logo was appearing tiny and unreadable on the landing page at <https://get-carelinkai.com>

Root Cause Analysis

Using Python PIL/Pillow image analysis, we discovered:

- **Original Canvas Size:** 1536x1024 pixels (1.6MP)
- **Actual Logo Content:** 891x193 pixels positioned at (323, 405) to (1214, 598)
- **Content Coverage:** Logo only filled 11.6% of the image canvas
- **File Size:** 1.9MB (extremely large for a logo)
- **Pixel Density:** 23.8% within bounding box (very sparse/thin logo)

The logo graphic was essentially a small element floating in a huge transparent canvas, causing it to appear tiny when rendered at standard web sizes.

Solution Implemented

1. Image Optimization

- **Cropped** the logo to actual content boundaries with 10px padding
- **New Dimensions:** 912x214 pixels (optimal for web use)
- **File Size Reduction:** From 1.9MB → 278KB (**85% reduction**)
- **Format:** PNG with transparency maintained and optimization enabled

2. HTML/CSS Updates

Updated logo container sizes in `src/app/page.tsx` :

Navigation Logo (line 12):

- Before: `h-12 w-48` (48x192px)
- After: `h-16 w-64` (64x256px)
- **33% size increase** for better visibility

Footer Logo (line 258):

- Before: `h-10 w-40` (40x160px)
- After: `h-12 w-48` (48x192px)
- **20% size increase** for better visibility

Files Modified

1. `public/images/logo.png` - Replaced with optimized version
2. `public/logo.png` - Updated backup copy
3. `src/app/page.tsx` - Increased logo container dimensions

Technical Details

Image Processing Code

```
from PIL import Image
import numpy as np

# Load and analyze original logo
img = Image.open('/home/ubuntu/Uploads/logo.png')
img_array = np.array(img.convert('RGBA'))

# Find actual content boundaries
alpha_channel = img_array[:, :, 3]
non_transparent = alpha_channel > 10
rows_with_content = np.any(non_transparent, axis=1)
cols_with_content = np.any(non_transparent, axis=0)

# Crop to content with padding
padding = 10
cropped = img.crop((left-padding, top-padding, right+padding, bottom+padding))
cropped.save('logo-optimized.png', 'PNG', optimize=True)
```

Aspect Ratio Analysis

- **Original:** 1536:1024 = 1.5:1 (landscape)
- **Optimized:** 912:214 = 4.26:1 (wide horizontal)
- Logo is naturally very wide, suitable for navigation bars

Deployment

Git Commit

```
commit 7410c0c
Author: System
Date: Thu Jan 1 21:43:00 2026

fix: Optimize logo image by cropping whitespace for better visibility

- Reduced logo file size from 1.9MB to 278KB (85% reduction)
- Cropped logo from 1536x1024 canvas to actual content size 912x214
- Increased navigation logo size from h-12 w-48 to h-16 w-64
- Increased footer logo size from h-10 w-40 to h-12 w-48
- Logo now fills the image canvas instead of being tiny within a huge transparent area
```

Pushed to GitHub

- Repository: profyt7/carelinkai
- Branch: main
- Commit: 7410c0c

Render Deployment

- Auto-deploy triggered from GitHub push
- Expected deployment time: 3-5 minutes
- Live URL: <https://getcarelinkai.com>

Verification Checklist

✓ Pre-Deployment

- [x] Logo cropped to actual content size
- [x] File size reduced by 85%
- [x] Optimized PNG format maintained
- [x] Navigation logo size increased
- [x] Footer logo size increased
- [x] Changes committed to Git
- [x] Pushed to GitHub main branch

🔄 Post-Deployment (Pending)

- [] Visit <https://getcarelinkai.com>
- [] Verify navigation logo is visible and readable
- [] Verify footer logo is visible
- [] Check logo on mobile viewport
- [] Confirm no layout issues
- [] Validate page load performance

Expected Results

- **Logo Visibility:** Logo should now be clearly visible and readable
- **Professional Appearance:** Proper sizing in navigation bar
- **Page Load:** Faster loading due to 85% file size reduction
- **Mobile Responsiveness:** Logo should scale appropriately on all devices

Performance Impact

- **Bandwidth Savings:** 1.6MB per page load (1.9MB → 0.3MB)
- **Load Time:** Significantly faster logo rendering
- **SEO:** Improved page speed metrics


Rollback Plan (if needed)

If issues occur, revert with:

```
cd /home/ubuntu/carelinkai-project
git revert 7410c0c
git push origin main
```

Success Metrics

- Logo is readable at standard web sizes
- No layout distortion or overflow
- Improved page load performance
- Positive user feedback on logo visibility

Status:  Deployed - Awaiting verification

Date: January 1, 2026

Deployment: Automatic via Render