

Paul Chatterton Portfolio - Debug Summary

Date: January 30, 2026

Status:  Successfully Fixed and Building



What I Found

Critical Issues Discovered

1. Wrong File Location

- **Problem:** The main `index.astro` page was stored in `.github/workflows/src/pages/` instead of `src/pages/`
- **Why this matters:** Astro looks for pages in the `src/pages/` folder. Having it in the wrong place means Astro couldn't find your website content!
- **Status:**  Fixed

2. Incorrect Base Path Configuration

- **Problem:** In `astro.config.mjs`, the base path was `'Paul-chatterton'` instead of `'/Paul-Chatterton'`
- **Why this matters:** For GitHub Pages, the base path needs a leading slash (/) to properly load CSS, images, and links. Without it, your website would look broken!
- **Status:**  Fixed

3. Missing Project Structure

- **Problem:** The repository only had configuration files but was missing essential directories
- **Missing folders:**
 - `src/pages/` - Where website pages live
 - `public/` - Where images, fonts, and other static files go
- **Status:**  Fixed

4. Missing Configuration Files

- **Problem:** No `tsconfig.json` (TypeScript configuration)
- **Problem:** No `.gitignore` (tells Git what not to track)
- **Status:**  Fixed

✓ What I Fixed

1. Created Proper Project Structure

paul_website/	
└ .github/	
└ workflows/	
└ deploy.yml	✓ (GitHub Actions for auto -deployment)
└ public/	✓ (Created - for images/assets)
└ src/	
└ pages/	
└ index.astro	✓ (Moved to correct location)
└ env.d.ts	✓ (Auto-generated by Astro)
└ .gitignore	✓ (Created)
└ astro.config.mjs	✓ (Fixed)
└ package.json	✓ (Already correct)
└ package-lock.json	✓ (Generated by npm install)
└ tsconfig.json	✓ (Created)

2. Fixed Configuration

Before (broken):

```
export default defineConfig({
  site: 'https://bbgydjqvxb-glitch.github.io',
  base: 'Paul-chatterton', // ✖ Missing leading slash
  output: 'static',
});
```

After (fixed):

```
export default defineConfig({
  site: 'https://bbgydjqvxb-glitch.github.io',
  base: '/Paul-Chatterton', // ✓ Corrected with leading slash
  output: 'static',
});
```

3. Installed Dependencies & Tested Build

- ✓ Ran `npm install` - installed 356 packages successfully
- ✓ Ran `npm run build` - **BUILD SUCCESSFUL!** 🎉
- ✓ Generated `dist/index.html` - your deployable website

4. Committed Changes to Git

All fixes have been committed with a descriptive message, ready to push to GitHub.

🔍 Sanity CMS Integration Status

What I Found

Your `index.astro` file already has Sanity integration code:

```
const client = createClient({
  projectId: 'ybrfxq5h',
  dataset: 'production',
  useCdn: true,
  apiVersion: '2024-01-01',
});

const author = await client.fetch(`*[_type == "author"][0]`);
```

Current Status

- ✅ **Sanity client is properly configured**
- ✅ **Project ID is set:** ybrfxq5h
- ✅ **Dataset:** production
- ⚠️ **Content fetch will work once you add data to Sanity**

What Shows Now (Fallback Values)

Since there's no data in Sanity yet, the website shows these defaults:

- Name: “Paul Chatterton”
- Title: “Academic & Researcher”
- Bio: “Welcome to the portfolio.”

This is actually good! It means the site will always show something, even if Sanity is down or empty.



Dependencies Review

Your `package.json` includes:

Package	Version	Purpose
astro	^4.0.0	✅ The main framework - latest stable version
@sanity/client	^6.0.0	✅ Connects to Sanity CMS
react	^18.0.0	✅ For interactive components (if needed)
react-dom	^18.0.0	✅ React rendering library

Security Note: `npm` reported 3 vulnerabilities (2 moderate, 1 high). These are common in JavaScript projects and can be addressed later with `npm audit fix`.

Next Steps for Deployment

1. Push Your Fixes to GitHub

```
cd /home/ubuntu/paul_website
git push origin main
```

This will:

- Upload all your fixes to GitHub
- Trigger the automatic deployment workflow
- Deploy your site to: <https://bbgydjqvxb-glitch.github.io/Paul-Chatterton/>

2. Enable GitHub Pages (If Not Already Enabled)

1. Go to your GitHub repository: <https://github.com/bbgydjqvxb-glitch/Paul-Chatterton>
2. Click **Settings → Pages**
3. Under “Build and deployment”:
 - Source: Select **GitHub Actions**
4. Your site will be live at: <https://bbgydjqvxb-glitch.github.io/Paul-Chatterton/>

3. Add Content to Sanity CMS

Once you have Sanity credentials:

1. Go to your Sanity Studio (dashboard)
2. Create an “author” document with:
 - `name` : Professor Paul Chatterton’s full name
 - `title` : His academic title/role
 - `bio` : His biography/description
3. The website will automatically fetch and display this data!

4. Test Your Live Site

After pushing and deployment completes (takes 2-3 minutes):

- Visit: <https://bbgydjqvxb-glitch.github.io/Paul-Chatterton/>
- Check if the page loads correctly
- Verify styling looks good

Beginner Tips

What is Astro?

Think of Astro as a tool that takes your code and turns it into a fast, static website. It’s like a recipe that combines ingredients (your code) into a finished dish (your website).

What is Sanity CMS?

Sanity is like a content management system - it’s where you store and edit Professor Chatterton’s information (bio, publications, etc.) without touching code. It’s like a Google Doc that feeds your website.

What is GitHub Pages?

It’s free hosting from GitHub. It takes your code and makes it accessible on the internet with a URL.

What Does “Build” Mean?

Building is when Astro reads your `.astro` files and converts them into plain HTML, CSS, and JavaScript that browsers understand. The output goes into the `dist/` folder.



Known Issues (Minor)

Security Vulnerabilities

- **Status:** 3 vulnerabilities detected
- **Severity:** 2 moderate, 1 high
- **Impact:** Low (these are in development dependencies)
- **Action:** Can be addressed later with `npm audit fix` when you’re more comfortable

No Environment Variables Yet

- If you need API keys or secrets, you’ll need to create a `.env` file
 - Not needed right now since Sanity credentials are in the code
-



Summary Checklist

- [x] Repository cloned successfully
 - [x] Project structure fixed
 - [x] Files moved to correct locations
 - [x] Configuration corrected
 - [x] Dependencies installed
 - [x] Build tested and working
 - [x] Changes committed to Git
 - [] **Next: Push to GitHub** ← You need to do this!
 - [] **Next: Enable GitHub Pages** (if not already)
 - [] **Next: Add Sanity content**
-



If Something Goes Wrong

Build Fails After Changes

```
cd /home/ubuntu/paul_website
npm install
npm run build
```

Want to Test Locally?

```
npm run dev
```

Then open: `http://localhost:4321/Paul-Chatterton/`

Need to Start Over?

The original repository is at: <https://github.com/bbgydjqvxb-glitch/Paul-Chatterton>
 You can always re-clone it.



Useful Commands

Command	What It Does
<code>npm install</code>	Installs all dependencies
<code>npm run dev</code>	Starts local development server
<code>npm run build</code>	Builds the website for deployment
<code>npm run preview</code>	Preview the built site locally
<code>git status</code>	See what files changed
<code>git add .</code>	Stage all changes
<code>git commit -m "message"</code>	Save changes with a message
<code>git push</code>	Upload changes to GitHub



Conclusion

Your Astro project is now **fully functional and ready to deploy!** The main issues were:

1. Files in wrong locations (fixed)
2. Incorrect configuration (fixed)
3. Missing project structure (fixed)

The website builds successfully and will display Professor Chatterton's portfolio once you:

1. Push the fixes to GitHub
2. Enable GitHub Pages
3. Add content to Sanity

Great job getting this far! Feel free to ask if you need help with the next steps.