

Admin Panel Management System

The portfolio website includes a comprehensive admin panel management system that allows you to hide/show administrative interfaces for managing certifications, experience, and projects.

Features

- **Password Protection:** Secure access to admin panels with configurable password
- **Toggle Visibility:** Show/hide admin panels with a single click
- **Keyboard Shortcut:** Quick access using `Ctrl + Shift + A`
- **Session Storage:** Remembers your admin state during the session
- **Development Mode:** Auto-show admin panels in development environment

Access Methods

1. Admin Toggle Button

- Look for the settings icon (⚙️) in the top-right corner of the page
- Click to open the admin login modal
- Enter your admin password to access the panels

2. Keyboard Shortcut

- Press `Ctrl + Shift + A` anywhere on the page
- This will open the admin login modal if not authenticated
- If already authenticated, it will toggle admin panel visibility

3. Development Mode

- Admin panels are automatically visible in development mode (`NODE_ENV=development`)
- No authentication required in development

Configuration

Setting Admin Password

1. Environment Variable (Recommended):

```
bash
NEXT_PUBLIC_ADMIN_PASSWORD=your_secure_password
```

2. Default Password:

- If no environment variable is set, the default password is `admin123`
- **Important:** Change this for production use!

Environment Variables




Create a `.env.local` file in your project root:

```
# Admin Panel Configuration
NEXT_PUBLIC_ADMIN_PASSWORD=your_secure_password_here

# Optional: Force show admin in production (not recommended)
SHOW_ADMIN=false
```

Admin Panel Controls

Once authenticated, you'll see admin controls in the top-right corner:

-  **Eye Icon:** Show admin panels
-  **Eye-Off Icon:** Hide admin panels
-  **Unlock Icon:** Logout from admin mode

Admin Panel Features

Certifications Admin

- **Location:** Bottom-right corner (floating panel)
- **Features:**
 - Manual refresh of certifications
 - API status monitoring
 - Cache status indicators
 - Cron job testing
 - Setup instructions for automation

Experience Admin

- **Location:** Bottom-right corner (floating panel)
- **Features:**
 - View current experience statistics
 - Manual data refresh
 - Save changes functionality
 - Edit mode toggle
 - Latest position preview

Projects Admin

- **Location:** Bottom-left corner (floating panel)
- **Features:**
 - Projects overview statistics
 - Medium integration status
 - Manual refresh from Medium
 - Latest projects preview
 - Auto-update configuration

Security Considerations

1. **Production Deployment:**
 - Always set a strong admin password

- Never commit `.env.local` to version control
- Consider using environment-specific passwords

2. Password Management:

- Use a unique, strong password
- Store securely (password manager recommended)
- Rotate periodically

3. Access Control:

- Admin panels are hidden by default in production
- Session-based authentication (clears on browser close)
- No persistent login cookies

Troubleshooting

Admin Panels Not Showing

1. Verify you're authenticated (check top-right corner for admin controls)
2. Ensure admin visibility is enabled (eye icon should be filled)
3. Check browser console for any JavaScript errors

Login Issues

1. Verify the admin password is correctly set
2. Check the `.env.local` file exists and has the correct variable name
3. Restart the development server after changing environment variables

Development Mode

1. Admin panels should be visible automatically in development
2. If not showing, check that `NODE_ENV=development` is set
3. Verify no errors in the browser console

Best Practices

1. Development:

- Use the default password or a simple one for development
- Admin panels are always visible, no need to authenticate

2. Production:

- Set a strong, unique admin password
- Keep admin access minimal and secure
- Monitor admin access if needed

3. Team Access:

- Share admin password securely with team members
- Consider different passwords for different environments
- Document password rotation procedures

API Endpoints

The admin panels interact with these API endpoints:

- `/api/certifications` - Certification management

- `/api/certifications/refresh` - Manual certification refresh
- `/api/experience` - Experience data management
- `/api/projects` - Project management
- `/api/projects/refresh-medium` - Medium integration refresh
- `/api/cron/refresh-certifications` - Automated certification updates

Customization

Changing Admin Password Location

Edit `/app/contexts/AdminContext.tsx` :

```
const ADMIN_PASSWORD = process.env.NEXT_PUBLIC_ADMIN_PASSWORD || 'your_new_default'
```

Disabling Admin in Production

Set environment variable:

```
SHOW_ADMIN=false
```

Customizing Keyboard Shortcut

Edit `/app/components/admin-toggle.tsx` :

```
if (e.ctrlKey && e.shiftKey && e.key === 'YourKey') {
  // Your custom shortcut
}
```

Updates and Maintenance

The admin system is designed to be:

- **Self-contained**: All admin logic is in dedicated components
- **Non-intrusive**: Doesn't affect main website functionality
- **Easily removable**: Can be completely disabled if needed

For updates or issues, check the admin component files:

- `/app/contexts/AdminContext.tsx`
- `/app/components/admin-toggle.tsx`
- `/app/components/admin-wrapper.tsx`