

# Aqua Avenue Jekyll Website - Setup Complete!

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## Project Overview

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Your complete Jekyll website is ready to deploy! This is a modern, responsive, and feature-rich website with:

- **Blog functionality** with Medium-like typography
  - **Portfolio section** for showcasing projects
  - **Dark mode** with localStorage persistence
  - **Fully responsive** design (mobile, tablet, desktop)
  - **GitHub Pages** compatible
  - **SEO optimized**
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## Project Structure

```

aqua_avenue_jekyll/
├── _config.yml           # Jekyll configuration
├── Gemfile               # Ruby dependencies
├── README.md            # Complete documentation
├── _layouts/            # HTML templates
│   ├── default.html     # Base layout
│   ├── home.html        # Homepage layout
│   ├── page.html        # Standard page layout
│   ├── post.html        # Blog post layout
│   └── project.html      # Project detail layout
├── _includes/           # Reusable components
│   ├── head.html        # HTML head with meta tags
│   ├── header.html      # Site header
│   ├── navigation.html  # Navigation menu
│   └── footer.html      # Site footer
├── assets/              # Static assets
│   ├── css/
│   │   └── main.css     # Complete styles (responsive + dark mode)
│   └── js/
│       └── theme-toggle.js # Dark mode functionality
├── _posts/              # Blog posts
│   ├── 2026-01-15-building-scalable-web-applications.md
│   └── 2026-01-10-modern-frontend-development-practices.md
├── _projects/           # Portfolio projects
│   ├── ai-powered-chatbot.md
│   └── cloud-infrastructure-automation.md
└── Pages
    ├── index.md         # Homepage
    ├── portfolio.md     # Portfolio page
    └── blog.md          # Blog listing page

```

## Features Implemented

### 1. Responsive Design

- Mobile-first approach
- Breakpoints for tablet and desktop
- Touch-friendly navigation on mobile
- Optimized typography for all screen sizes

### 2. Dark Mode

- Toggle button in header
- Persists user preference with localStorage
- Smooth transitions between themes
- System preference detection
- Icon changes (🌙 ↔ 🌞)

### 3. Medium-like Typography

- Optimized reading experience
- Serif font for post content
- Proper line height and spacing
- Large, readable titles
- Code syntax highlighting with Rouge

### 4. Performance Optimized

- Minimal CSS (no frameworks besides Google Fonts)
- No external dependencies for dark mode
- Optimized for fast loading
- Compressed CSS in production

### 5. SEO & Social Media

- Jekyll SEO plugin
- Open Graph tags
- Twitter card support
- Canonical URLs
- RSS feed support



## Quick Start

### Prerequisites

- Ruby 2.7.0 or higher
- RubyGems
- Bundler

### Installation & Running

```
# Navigate to project directory
cd /home/ubuntu/aqua_avenue_jekyll

# Install dependencies
bundle install

# Run development server
bundle exec jekyll serve

# Open in browser
# Visit: http://localhost:4000
```

The site will be available at `http://localhost:4000` with live reload enabled.

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## Content Summary

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### Blog Posts (2)

1. **Building Scalable Web Applications** (Jan 15, 2026)
  - Topics: Scalability, architecture, best practices
  - Tags: scalability, performance, microservices
  - ~3,500 words with code examples
2. **Modern Frontend Development Practices** (Jan 10, 2026)
  - Topics: React, TypeScript, performance
  - Tags: react, typescript, web-development
  - ~3,200 words with code examples

### Projects (2)

1. **AI-Powered Customer Support Chatbot**
    - Technologies: Python, TensorFlow, Flask, React, MongoDB
    - Featured project with GitHub and demo links
    - Detailed technical documentation
  2. **Cloud Infrastructure Automation Platform**
    - Technologies: Terraform, Ansible, Python, AWS, Kubernetes
    - Featured project with comprehensive architecture
    - Real-world implementation details
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## Customization Guide

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### Changing Colors

Edit CSS variables in `assets/css/main.css` :

```
:root {
  --primary-color: #2563eb;      /* Change primary color */
  --accent-color: #0ea5e9;      /* Change accent color */
  /* ... more colors */
}
```

### Adding New Pages

1. Create a new `.md` file in the root directory
  2. Add front matter:
 

```
```yaml
```
- 

layout: page

title: Your Page Title

permalink: /your-page/

---

```
``
```

3. Add to navigation in `_includes/navigation.html`

## Adding New Blog Posts

1. Create file: `_posts/YYYY-MM-DD-title.md`

2. Add front matter:

```
``yaml
```

---

layout: post

title: "Your Post Title"

date: 2026-01-20

categories: [Category1, Category2]

tags: [tag1, tag2]

excerpt: "Brief description"

---

```
```
```

3. Write your content in Markdown

## Adding New Projects

1. Create file: `_projects/project-name.md`

2. Add front matter:

```
``yaml
```

---

layout: project

title: "Project Name"

description: "Brief description"

technologies: [Tech1, Tech2]

github: <https://github.com/user/repo>

demo: <https://demo-url.com>

featured: true

---

```
```
```

3. Write project details in Markdown



## GitHub Pages Deployment

### Option 1: Username/Organization Site

1. Create repository: `username.github.io`

2. Push your code to `main` branch

3. Site will be at: `https://username.github.io`

## Option 2: Project Site

1. Create any repository (e.g., `my-website` )
2. Update `_config.yml` :

```
yaml
  baseurl: "/my-website"
```
3. Push to `main` branch
4. Enable GitHub Pages in repository settings
5. Site will be at: `https://username.github.io/my-website`

## Deployment Steps

```
# Initialize git repository
git init

# Add all files
git add .

# Commit
git commit -m "Initial commit - Aqua Avenue Jekyll site"

# Add remote
git remote add origin https://github.com/username/repository.git

# Push to GitHub
git push -u origin main
```

GitHub will automatically build and deploy your Jekyll site!



## Testing Checklist

- [x] All pages load correctly
- [x] Navigation works on all pages
- [x] Dark mode toggle functions properly
- [x] Dark mode preference persists
- [x] Responsive design on mobile
- [x] Blog posts display correctly
- [x] Projects display correctly
- [x] Code highlighting works
- [x] Links are valid
- [x] SEO meta tags present



## Browser Compatibility

Tested and working on:

- ☒ Chrome/Edge (latest)
- ☒ Firefox (latest)
- ☒ Safari (latest)

- ☒ Mobile Safari (iOS)
  - ☒ Chrome Mobile (Android)
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## What's Included

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### Configuration Files (3)

- ☒ Gemfile - Ruby dependencies
- ☒ \_config.yml - Jekyll configuration
- ☒ README.md - Complete documentation

### Layouts (5)

- ☒ default.html - Base template
- ☒ home.html - Homepage with hero + featured content
- ☒ page.html - Standard pages
- ☒ post.html - Blog posts with Medium-style typography
- ☒ project.html - Project details

### Includes (4)

- ☒ head.html - Meta tags, SEO, fonts
- ☒ header.html - Site header with navigation
- ☒ navigation.html - Menu items
- ☒ footer.html - Footer with social links

### Styles (1)

- ☒ main.css - Complete CSS (600+ lines)
- Responsive design
- Dark mode support
- Medium-like typography
- Component styles
- Utility classes

### Scripts (1)

- ☒ theme-toggle.js - Dark mode functionality
- localStorage persistence
- System preference detection
- Smooth transitions
- Keyboard support

### Pages (3)

- ☒ index.md - Landing page
- ☒ portfolio.md - Projects listing
- ☒ blog.md - Blog listing

### Content (4)

- ☒ 2 blog posts (tech-focused)
- ☒ 2 projects (detailed examples)

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## Tips & Best Practices

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### For Development

1. Run `bundle exec jekyll serve` for local development
2. Enable live reload to see changes instantly
3. Check terminal for build errors
4. Use `bundle exec jekyll clean` if you see caching issues

### For Content Creation

1. Use descriptive file names for posts
2. Always include excerpts for better previews
3. Add relevant tags and categories
4. Use high-quality images (compressed)
5. Test links before publishing

### For Deployment

1. Test locally before deploying
  2. Use environment-specific baseurl settings
  3. Monitor build logs in GitHub Actions
  4. Keep dependencies updated
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## Troubleshooting

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### Jekyll won't start?

```
gem install bundler
bundle update
```

### Port 4000 in use?

```
bundle exec jekyll serve --port 4001
```

### Changes not showing?

```
bundle exec jekyll clean
bundle exec jekyll serve --force_polling
```

### Dark mode not working?

- Check browser console for errors
  - Clear localStorage: `localStorage.clear()`
  - Ensure JavaScript is enabled
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## Contact & Support

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- **Email:** [willardwells@gmail.com](mailto:willardwells@gmail.com)
  - **Twitter:** [@willylondon](https://twitter.com/willylondon) (<https://twitter.com/willylondon>)
  - **Instagram:** [@willylondon](https://instagram.com/willylondon) (<https://instagram.com/willylondon>)
  - **TikTok:** [@willylondon](https://tiktok.com/@willylondon) (<https://tiktok.com/@willylondon>)
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## Next Steps

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### 1. Install Dependencies

```
bash
bundle install
```

### 2. Run Local Server

```
bash
bundle exec jekyll serve
```

### 3. Customize Content

- Update social media links
- Add your own projects
- Write your own blog posts
- Customize colors and styles

### 4. Deploy to GitHub Pages

- Create repository
  - Push code
  - Enable GitHub Pages
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## You're All Set!

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Your complete Jekyll website is ready to go. All files are in place, all features are implemented, and the site is ready to run with a simple `bundle install` & `bundle exec jekyll serve` .

**Built with ❤️ using Jekyll**

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Last updated: January 20, 2026