

Product Requirements

Document - Laxmideepak

Portfolio Website





Project Overview

A modern, responsive portfolio website showcasing Laxmideepak Nelapatla's professional experience, skills, and projects with Apple-inspired light mode and dark mode themes.





Current Status: COMPLETED 

Core Features Implemented




1. Theme System

-  Apple-inspired light mode with custom CSS variables
-  Dark mode with cosmic/starry background
-  Theme switching with localStorage persistence
-  WCAG 2.1 AA accessibility compliance

2. Navigation & Header

-  Glass morphism navigation bar
-  Integrated time/weather display (04:15:39 PM Wed, Sep 3)
-  Responsive navigation with Work, About, Contact links
-  Email me and Resume buttons

3. Hero Section

-  Animated 3D text effects
-  Professional summary from resume
-  Static role display (Full Stack Software Engineer, AI/ML Engineer, Software Engineer)

- ✓ Profile image with border effects

4. Experience Section

- ✓ Updated company names (Srinidhi Technologies, UTA Honors College)
- ✓ Corrected job titles and periods
- ✓ Achievement bullet points from resume
- ✓ Card-based layout with hover effects

5. Projects Section

- ✓ 6+ projects including Dental Clinic Website, VisionCare Site, AI-Powered Land Use Predictor
- ✓ Project cards without images (as requested)
- ✓ No "View Details" buttons
- ✓ Technology stack displayed with icons
- ✓ Responsive grid layout

6. Skills Section

- ✓ 6 categories: Languages, WebFrameworks, Databases, DevOps/Cloud, ML/DS, Tools
- ✓ Technology icons and emojis
- ✓ Responsive grid layout
- ✓ Hover effects and animations

7. Education Section

- ✓ Modern timeline design with animations
- ✓ Updated degree names:
 - "Masters in Computer and Information Sciences" (UTA)
 - "BTech in Electronics and Communication Engineering" (JNTUH)
- ✓ Compact box sizes (1-2 lines as requested)
- ✓ Consistent heading style matching Projects section
- ✓ Framer Motion animations

8. Contact Section

- ✓ Modal-based contact form
- ✓ Alternative contact methods (Email, GitHub, LinkedIn)
- ✓ Mobile-optimized design
- ✓ Form validation and submission

9. Mobile Optimization

- ☒ Responsive design for all screen sizes
- ☒ Mobile-first approach
- ☒ Touch-friendly interactions
- ☒ Optimized text sizes and spacing

10. Technical Implementation

- ☒ Next.js 15.2.4 with App Router
- ☒ TypeScript for type safety
- ☒ Tailwind CSS for styling
- ☒ Framer Motion for animations
- ☒ Custom hooks (useAnalytics)
- ☒ Component-based architecture

Content Updates Completed

Resume Integration

- ☒ Professional summary updated
- ☒ Experience details synchronized
- ☒ Skills expanded based on GitHub analysis
- ☒ Projects updated with real Vercel deployments
- ☒ Certifications included (AWS Certified Developer)

UI/UX Improvements

- ☒ Removed Writing section completely
- ☒ Eliminated project images and view buttons
- ☒ Integrated time display in navigation
- ☒ Modern education timeline design
- ☒ Consistent heading styles across sections

Files Modified

- `app/page.tsx` - Main page with all sections
- `app/globals.css` - Apple light theme variables
- `tailwind.config.ts` - Extended color palette
- `components/GlassNav.tsx` - Navigation component

- `components/ProjectCard.tsx` - Project display
- `components/TimeWeatherDisplay.tsx` - Time/date widget
- `components/ContactModal.tsx` - Contact form modal
- `app/work/page.tsx` - Work page with projects
- `app/layout.tsx` - Root layout with viewport meta

Testing Requirements for TestSprite

Functional Testing

- 1. Theme Switching - Light/dark mode toggle
- 1. Navigation - All links and buttons working
- 1. Responsiveness - Mobile, tablet, desktop layouts
- 1. Animations - Framer Motion effects and transitions
- 1. Contact Form - Modal opening, form submission
- 1. Time Display - Real-time updates

Content Validation

- 1. Resume Accuracy - All content matches provided resume
- 1. Project Links - Vercel deployments accessible
- 1. Skills Display - Technology icons and categories
- 1. Education Details - Degree names and institutions

Performance Testing

- 1. Page Load Speed - Initial render and navigation
- 1. Animation Performance - Smooth 60fps animations
- 1. Mobile Performance - Touch interactions and scrolling
- 1. Accessibility - Screen reader compatibility

Cross-Browser Testing

- 1. Chrome/Safari/Firefox - Modern browser compatibility
- 1. Mobile Browsers - iOS Safari, Chrome Mobile
- 1. Responsive Design - Various screen sizes and orientations
- 2.