DIGITAL PORTFOLIO

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College : Agurchand manmull Jain College

(Madras University)

PROJECT TITLE

DIGITAL PORTFOLIO

USING

HTML CSS JAVASCRIPT

AGENDA

- 1.Problem Statement
- 2.Project Overview
- 3.End Users
- 4.Tools and Technologies
- 5.Portfolio design and Layout
- 6.Features and Functionality
- 7.Results and Screenshots
- 8.Conclusion
- 9.Github Link

PROJECT STATEMENT

- In today's digital era, traditional resumes alone are not-enough to showcase skills and projects effectively. Many students and professionals lack a structured online presence to highlight their work. A digital portfolio provides an interactive and accessible platform to present achievements, skills, and experiences.

PROJECT OVERVIEW

- The project is a Student Digital Portfolio built using HTML and CSS.
- It consists of four main pages:
- Home Page: A welcome section with navigation to other pages.
- Certificate Page: Displays a list of earned certificates (e.g., HTML5, CSS3, JavaScript).
- Resume Page: Contains basic resume details like name, email, education, and skills.
- Contact Page: Provides contact information (email, phone, location).
- A navigation bar links all pages, and a shared style.css file ensures consistent design with a clean layout, responsive navigation, and highlighted active links.

Home .html (Homepage):

- Acts as the landing page for the dashboard. It introduces the user and guides them to other sections.

- A navigation bar with links to Home, Certificate, Resume, Contact,Project.
- A welcome message and instructions.
- Need:
- This page provides a starting point and makes navigation user-friendly.

Contact.html:

*Provides contact details for communication.

*Email, phone number, and location information.

Need:

*Essential for networking, allowing teachers, recruiters, or peers to reach out directly.

Resume.html:

*Contains the student's resume information.

*Basic details: Name, Email, Education, Skills.

Structured in a clear format.

*A professional way to explain qualifications, Education, technical skills.

Certificate.html:

Displays a list of the student's certifications.

Navbar for navigation.

A list of sample certificates like HTML5 Fundamentals, CSS3 Advanced, JavaScript Essentials.

Need:

Important for showcasing the student's achievements and technical expertise. Helps recruiters or teachers quickly see skills backed by certifications.

Project.html:

*Display the project in the grid with navigation bar.

Project:

*E-learning website (front-end)

Tools:

HTML, CSS, JAVASCRIPT, BOOTSTRAP

Skills & Education:

Skills Displays the knowledge and soft skills and tools which we have learned.

Education Displays the timeline of the school and college Education.

WHO ARE THE END USERS?

- Students
- Job seekers
- Freelancer
- Professionals

Students:

*Students can use this platform to present their academic achievements, certificates, and resumes.

*It helps them showcase their learning progress, skills, and projects in an organized way.

Job seekers:

*Job seekers can use this website as an online portfolio.

*They can share the link with recruiters, making it easier to review their resume, certificates, and contact details in one place.

Freelancers:

*Freelancers can display their skills, certifications, and past work experience.

*Helps in building trust with clients by showing verified achievements and professional background.

Professionals:

*Working professionals can use this as a digital CV to highlight their career growth, achievements, and expertise.

*It makes their profile more interactive and accessible compared to a traditional resume.

TOOLS AND TECHNIQUES

HTML5:

*Used for structuring the website.

*Defines sections like Hero, Skills, Education, Projects, Certificates, Resume, Contact.

*Provides semantic elements (<section>, <nav>, <footer>, etc.).

CSS3:

*Provides styling and layout.

Includes:

*Variables (Design Tokens) for consistent colors, shadows, and spacing.

*Responsive Design using media queries (@media (min-width: 860px)).

*Animations & Transitions (transition, [data-animate] effects).

*Dark/Light Theme using :root variables and theme toggling.

JavaScript (Vanilla JS):

*Adds interactivity and functionality:

*Theme Toggle (dark/light mode, stored in localStorage).

*Active Link Highlight while scrolling.

*Entrance Animations with IntersectionObserver.

*Project Filtering by tags (HTML, CSS, JS).

*contact Form Handling (mailto integration).

*Copy to Clipboard for contact info.

*Back-to-Top Button with smooth scroll.

*Modal Preview for project demos.

Browser APIs:

*IntersectionObserver API → detects when sections enter the viewport.

*Clipboard API → copies email/phone to clipboard.

*LocalStorage API → saves theme preference.

*Mailto protocol → opens email client with pre-filled subject & message.

*External Tools (used indirectly)

*VS Code (for development).

🛠 Techniques Explained

1. Responsive Web Design:

Uses flexbox and CSS grid for layouts (.skills-grid, .grid, .contact-grid).

Clamp() function makes font sizes flexible across screen sizes.

Media queries adjust layout for desktop vs. Mobile.

2. Theming (Light/Dark Mode):

CSS variables (:root and :root.light) define two color palettes.

JavaScript toggles themes and saves preference in localStorage.

3. Navigation Enhancements:

Sticky navigation bar (position: sticky).

Scroll-based active link highlighting via IntersectionObserver.

Smooth scroll behavior (html { scroll-behavior: smooth }).

4. Animations:

Entrance Animations → Sections fade/slide in with [data-animate].

Hover Effects on buttons, cards, and navbar links.

Reduced motion support → disables animations for accessibility if user prefers reduced motion.

5. Project Showcase:

Project cards with tags (HTML, CSS, JavaScript).

Filter buttons dynamically hide/show projects using JavaScript.

Modal Dialog to preview project screenshots or details.

6. Skills Visualization:

Progress bars show skill levels (.bar > span with width percentages).

Soft skills displayed as badges.

7. Contact System:

Two methods:

Form (mailto): opens user's email client.

Direct Contact Cards: email, phone, location, social links.

Clipboard Copy Button for quick copying of email/phone.

8. Resume Integration:

Resume preview image (resume.jpg).

Download options in PDF and JPG

Print Option (window.print())

9. Accessibility:

ARIA labels (aria-label, aria-selected).Contrast maintained with design tokens.Respects user settings for reduced motion.

10. Performance & Usability:

Lazy animations only trigger when visible.

Minimal dependencies (no external libraries, pure HTML/CSS/JS).

Back-to-Top Floating Button for quick navigation.

CODE EDITOR:

VS CODE:

Visual studio (VS) code is used for development of portfolio code.

HOSTING PLATFORM:

GITHUB:

Gitub is used for to create repositories for portfolio code and to deploy the project.

PORTFOLIO DESIGN AND LAYOUT

DESIGN:

1. Theme & Style

Uses dark mode by default with a toggle for light mode.

Color palette includes brand blue (#2233aa), accent pink (#aa0491), and soft background tones.

Rounded corners, card-style containers, and shadows give a modern UI feel.

Subtle animations on scroll (fade-in, translateY) to make sections engaging.

Responsive design with CSS Grid and Flexbox, adapting well to mobile and desktop.

2. Typography & Icons:

System default fonts for speed and clarity.

Clear hierarchy with large titles (clamp scaling), subtitles, muted descriptive text.

Simple emoji-based favicon (👨‍💻).

Buttons use gradient backgrounds for emphasis.

3. User Experience:

Sticky navigation bar with active link highlight.

Smooth scroll, back-to-top floating button, and interactive project filter.

Light/dark theme persists via localStorage.

Contact form uses mailto (direct email) without storing data.

LAYOUT:

1. Navbar:

Sticky top bar with name/logo, links to sections (Home, Skills, Education, Projects, Certificates, Achievements, Resume, Contact), and theme toggle.

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2. Hero (Home):

*Left: Introduction (name, role, description, chips, CTA buttons).

*Right: Profile picture (avatar).

3. Skills:

*Grid layout of skill cards with progress bars (HTML, CSS, JavaScript, Tools).

*Extra soft skills displayed as badges.

4. Education:

*Vertical timeline layout showing current studies and HSC.

5. Projects:

*Project filter buttons (All / HTML / CSS / JavaScript).

*Responsive grid of project cards with title, description, tags, and buttons (GitHub, Preview).

6. Certificates:

*Simple unordered list of certifications.

7. Achievements:

*List of activities, hackathons, volunteering.

*Badges for personality traits.

8. Resume:

*Resume preview image + download buttons (PDF, JPG) and print option.

9. Contact:

*Two-column grid (on desktop):

*Left: Contact form.

*Right: Contact cards (Email, Phone, Location, Social).

*Includes quick actions: call, WhatsApp, copy, maps.

10. Footer:

*Copyright.

*Auto-updated year and last-updated month/year.

11. Floating Action Button (FAB):

*Back-to-top button appears after scrolling.

12. Modal:

*For project previews (with placeholder image).

FEATURES AND FUNCTIONALITY

Features:

*Responsive Design: Uses CSS Grid/Flexbox for mobile-friendly layouts.

*Dark/Light Theme Toggle: Users can switch themes, and preference is saved in localStorage.

*Smooth Scroll & Animations: Sections animate when scrolling into view.

*Sticky Navbar: Navigation stays visible at the top.

*SEO & Social Meta Tags: Optimized <meta> for search engines and social media previews.

Interactive Functionality:

*Theme Toggle (button).

*Project Filtering via category buttons.

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*Modal Preview for projects.

*Contact Form opens default email client with pre-filled details.

*Copy-to-Clipboard for phone/email.

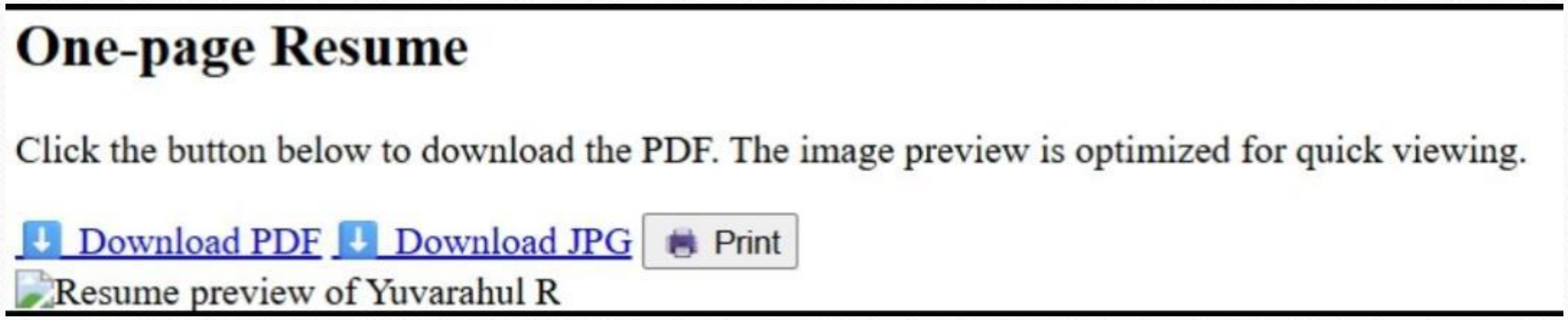
*Back-to-Top Floating Button (appears after scrolling).

*Accessibility Support: Honors user's "reduce motion" setting.

Print Mode Optimization: Hides navbar, footer, buttons when printing resume.

RESULTS AND SCREENSHOT

The results of the portfolio where executed and created by HTML,CSS,JAVASCRIPT, By this first step of the html code where executed below:



Education Timeline

Agurchand Manmull Jain College — Meenambakam, Chennai-01
Bachelor of Science(Computer Science with Artificial Intelligence)• *Student*
Higher Secondary (HSLC)
2023-2024

Tech I Work With

Focused on web fundamentals with growing experience in modern tooling.

HTML5

Semantic markup, accessibility, forms

CSS3

Layouts (Grid/Flex), responsive, animations

JavaScript

DOM, fetch, components, ES6+

Tools

Git & GitHub, VS Code, Figma (basic)

Soft skills: Communication, Teamwork, Problem Solving

Things I’ve Built

All | HTML | CSS | JavaScript

E-learning Website

A responsive front-end for an online learning platform with course cards, search, and interactive UI components.
HTMLCSSJavaScript

GitHub | Preview

Portfolio v1

First iteration of my personal site. Improved semantics and accessibility.
HTMLCSS

Mini JS Apps

Collection of small JavaScript widgets (todo, color picker, quiz).
JavaScript

Certifications

- HTML5 Fundamentals
- CSS3 Advanced
- JavaScript Essentials

Direct

Email
24ai005@amjaincollege.edu.in
Contact

Let’s Connect

Direct

Email
24ai005@amjaincollege.edu.in
Contact

Let’s Connect

Name Your name Email you@example.com Message How can I help?

Send Email Clear

This uses your email app (no data stored).

a" style="margin-top:8px"> Open Mail Copy

Phone
8667509422

Call WhatsApp Copy

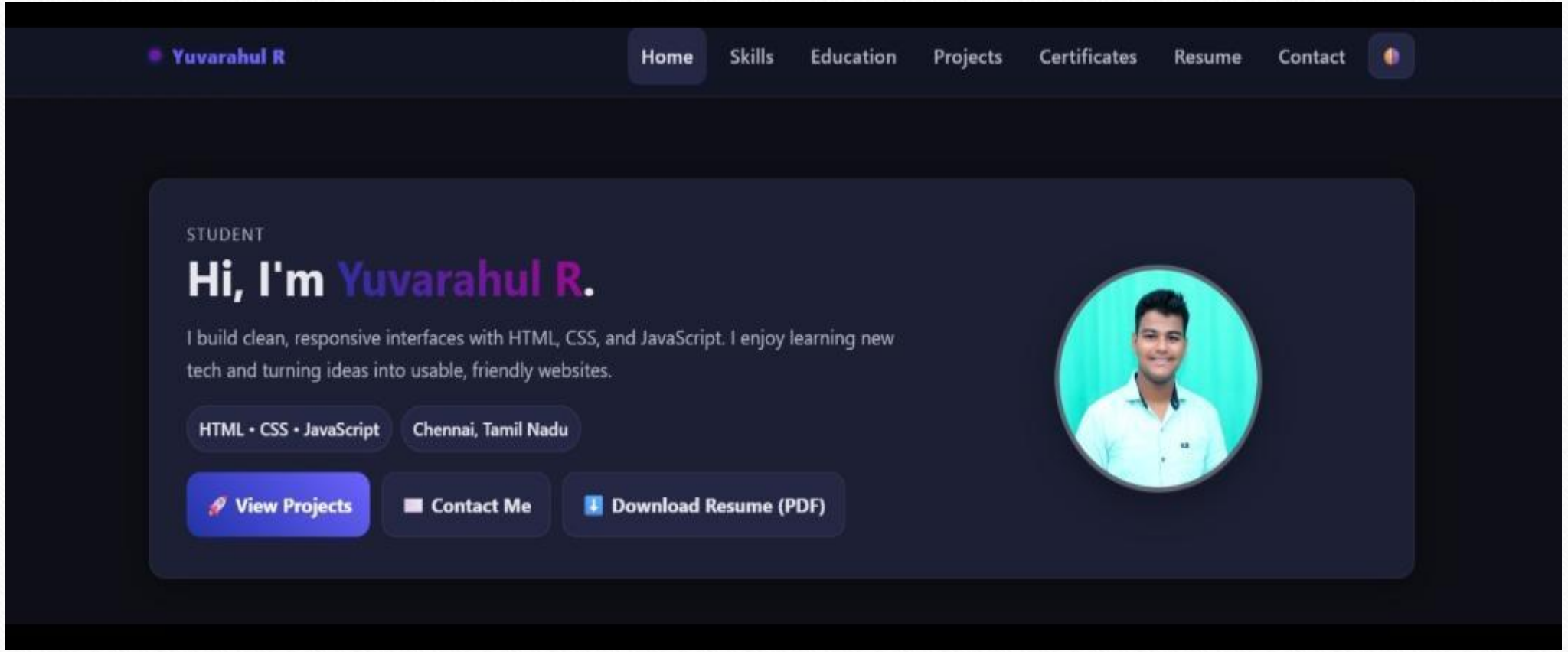
Location
Chennai, Tamil Nadu

Open Map

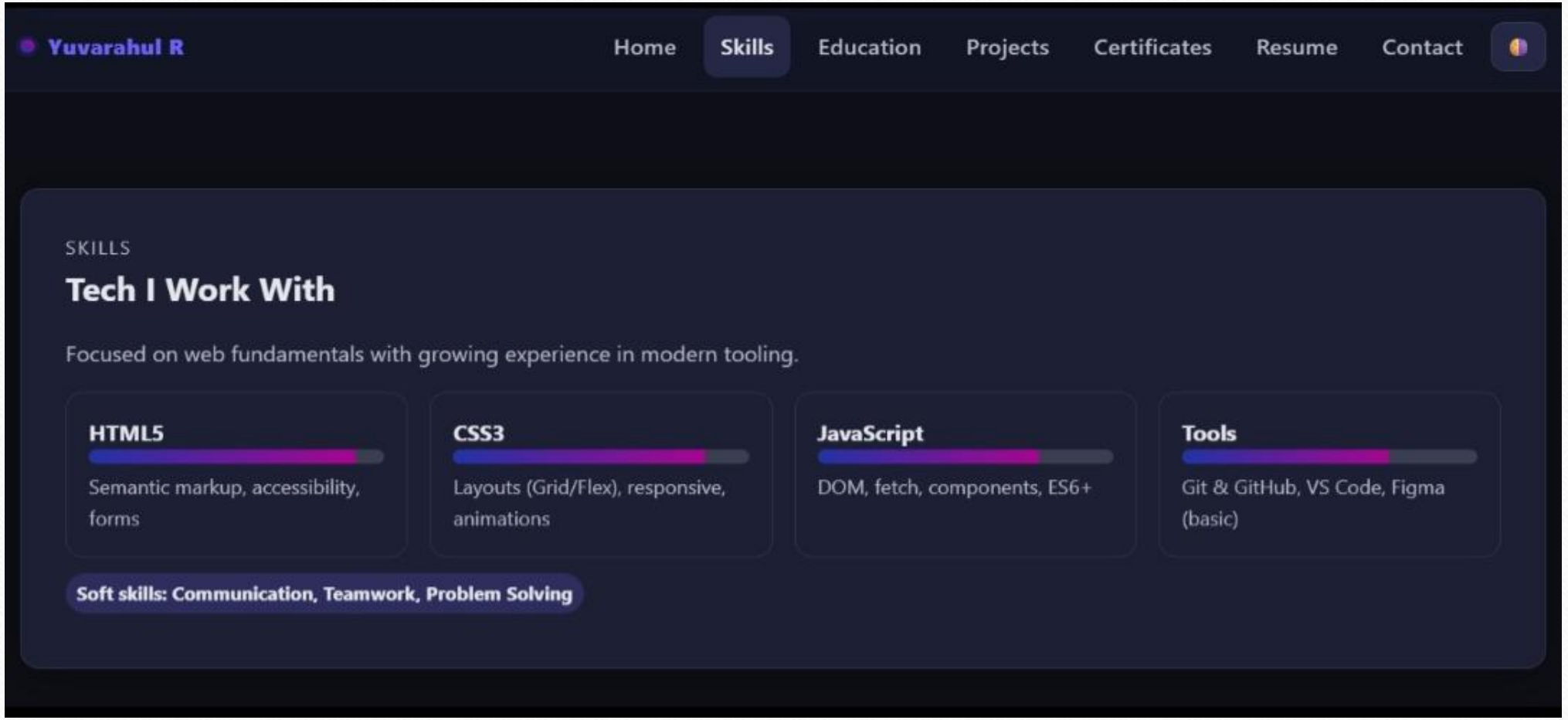
Social
Add your links

GitHub LinkedIn Website

- After applying a CSS and JavaScript code the result of the portfolio where:



- Skills Page:


Yuvarahul R
Home
Skills
Education
Projects
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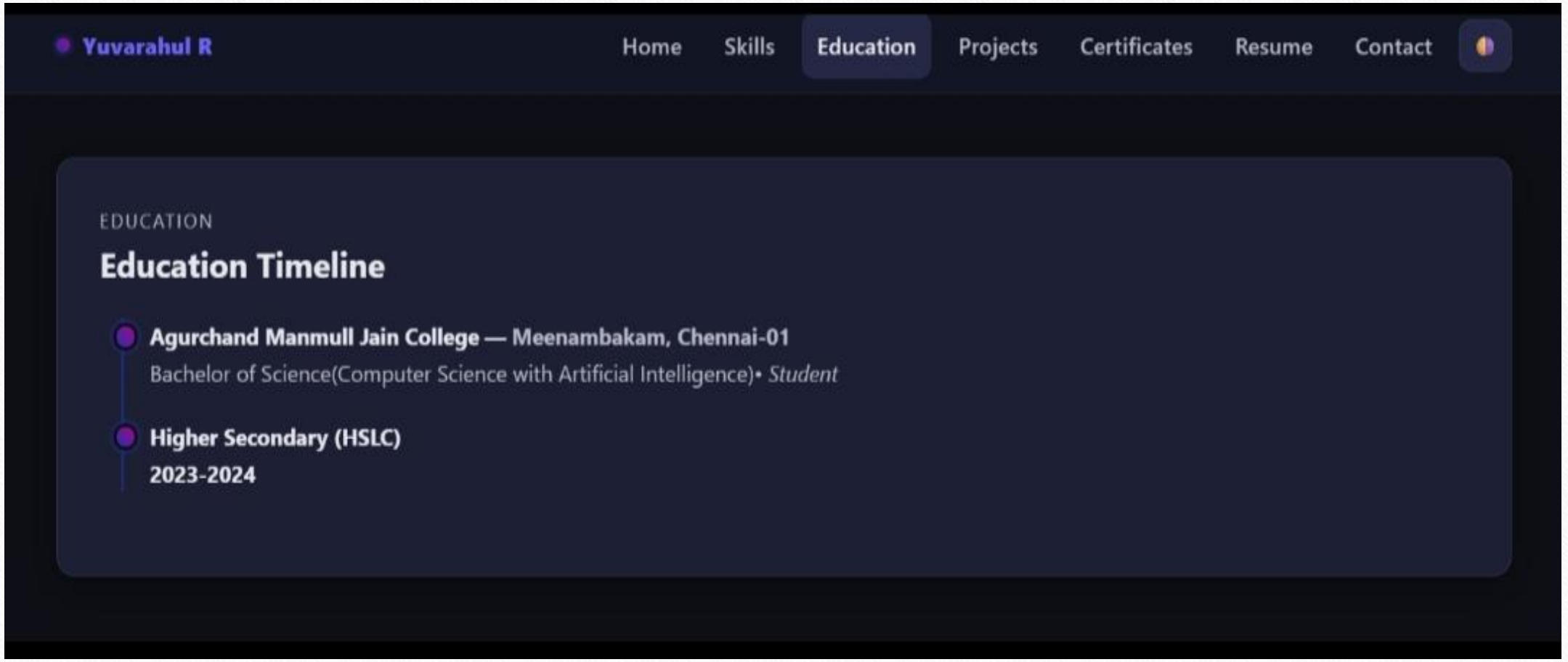
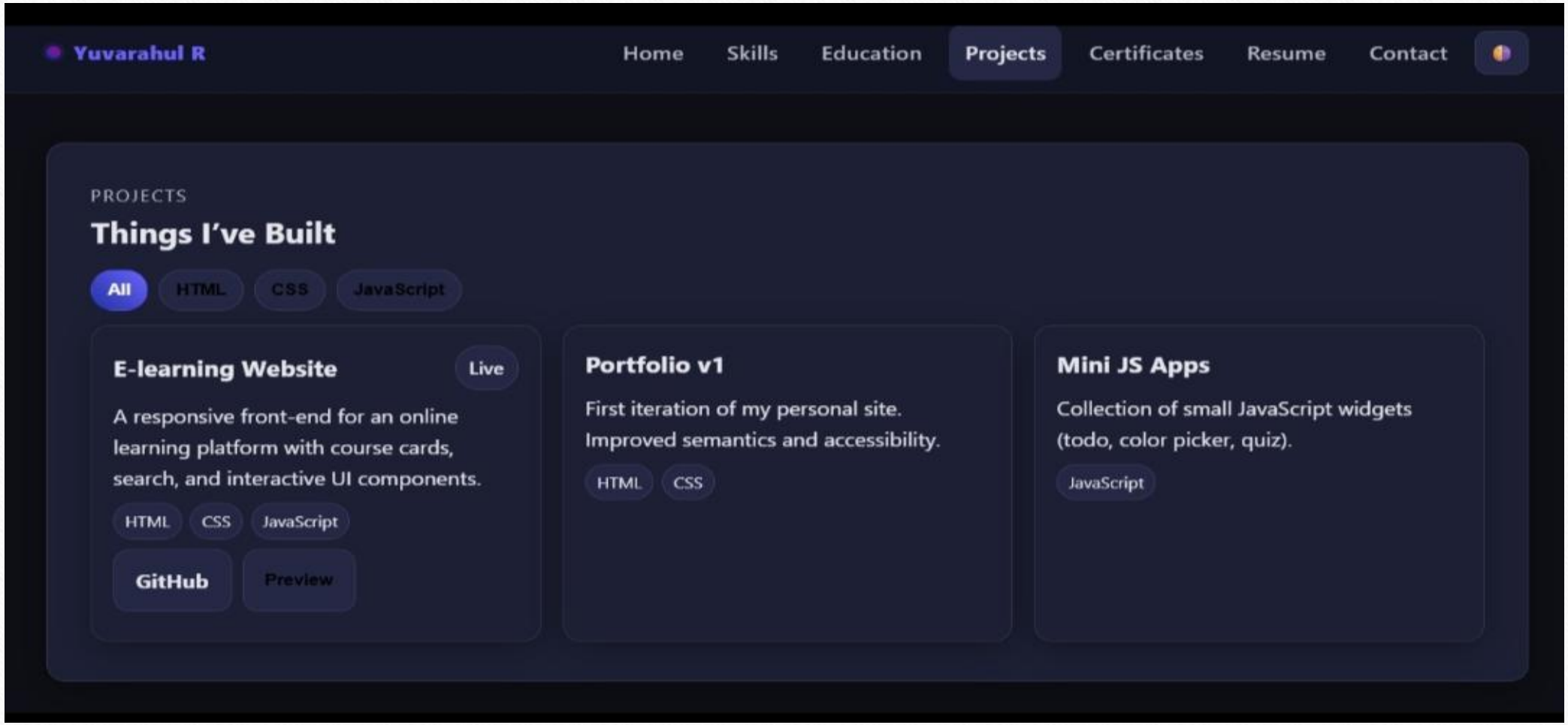
Resume
Contact
SKILLS
Tech I Work With
Focused on web fundamentals with growing experience in modern tooling.
HTML5
Semantic markup, accessibility, forms
CSS3
Layouts (Grid/Flex), responsive, animations
JavaScript
DOM, fetch, components, ES6+
Tools
Git & GitHub, VS Code, Figma (basic)
Soft skills: Communication, Teamwork, Problem Solving

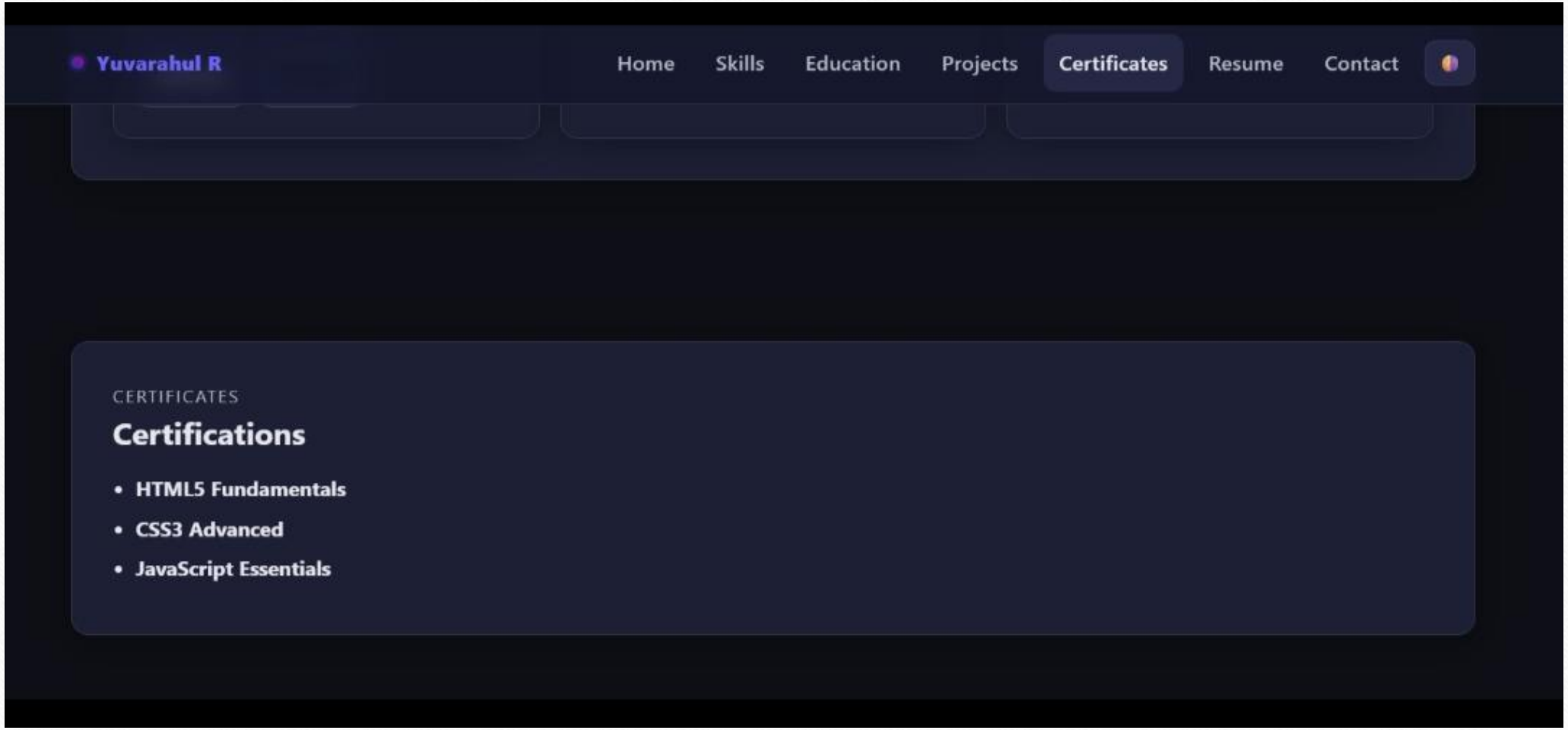
- Education page:



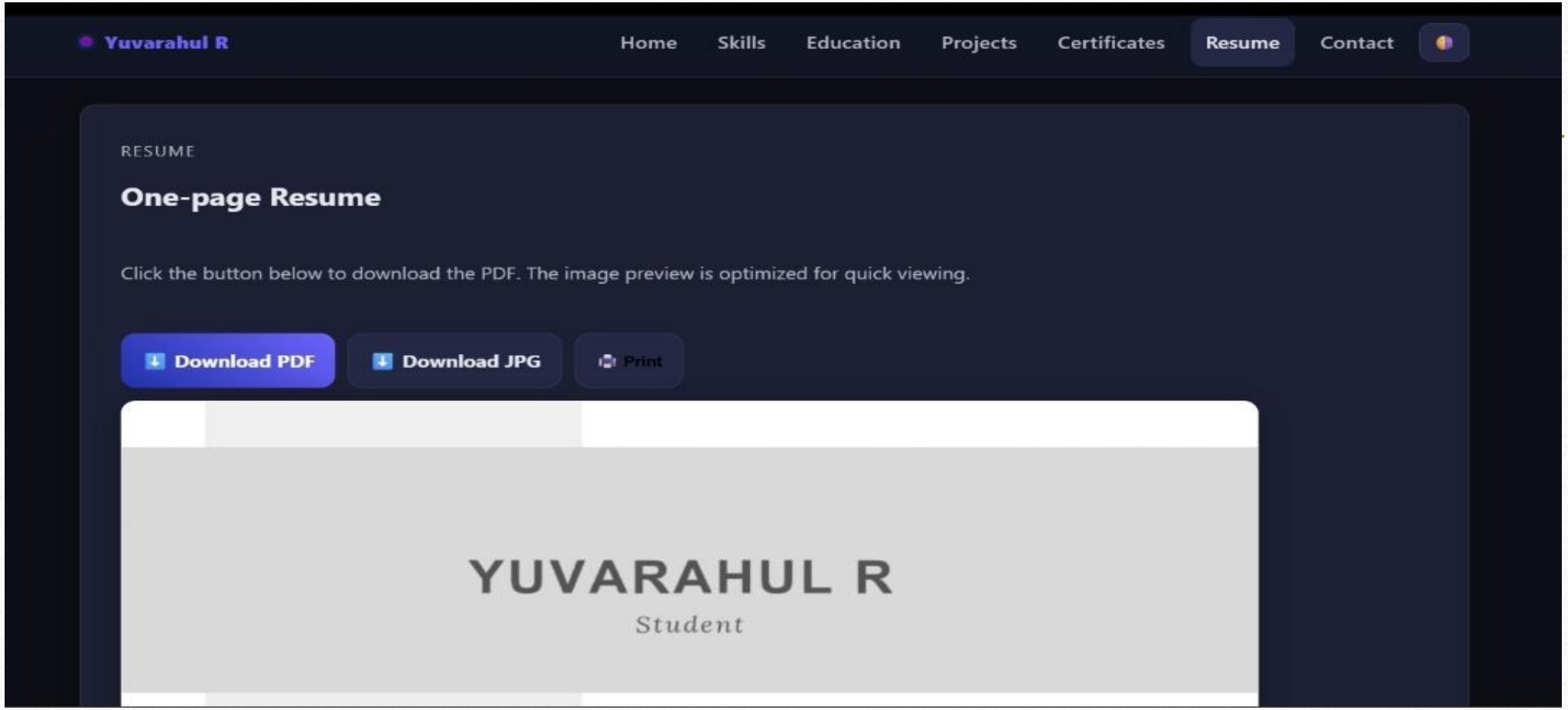
- Project page:



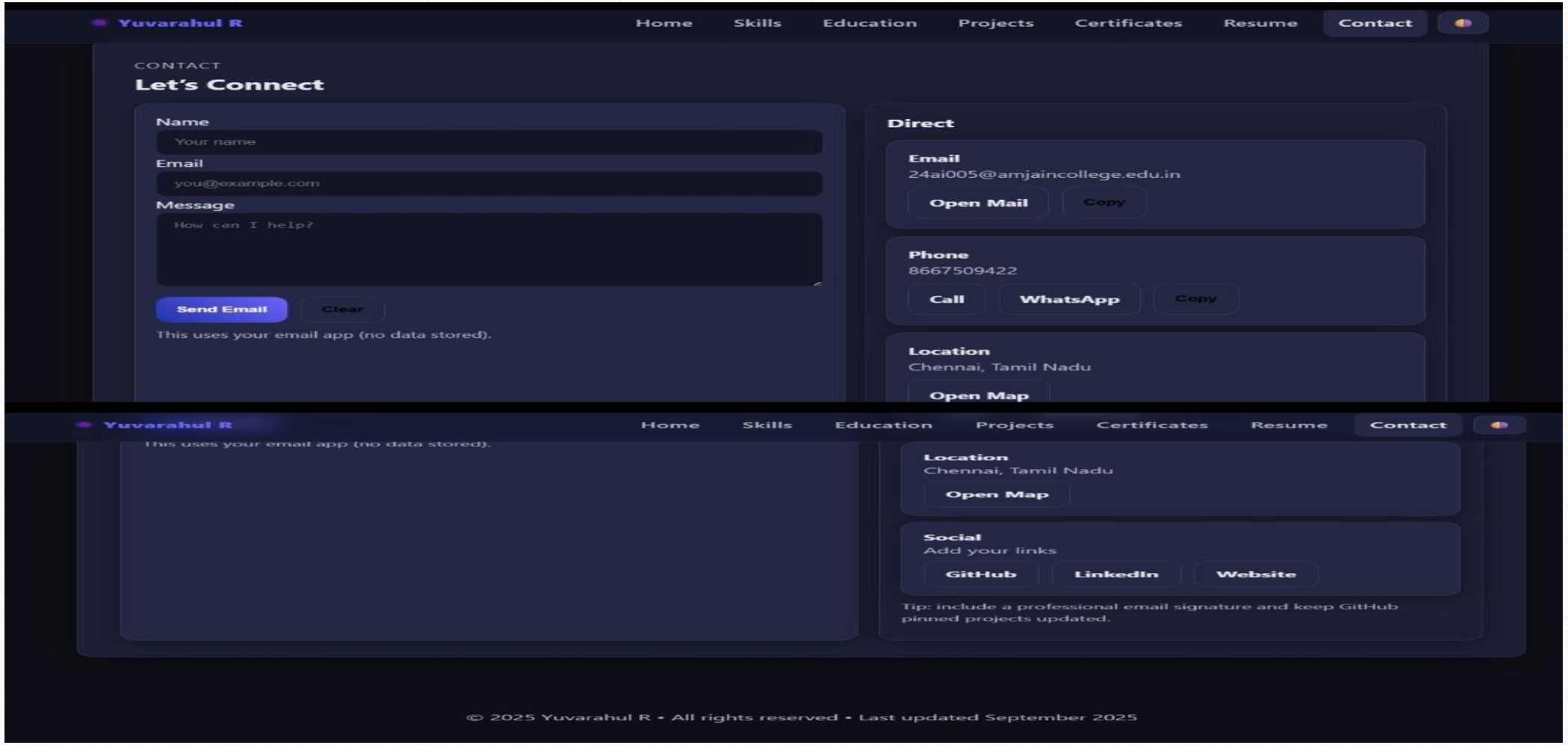
- Certificate page:



- Resume page:


Yuvarahul R
Home
Skills
Education
Projects
Certificates
Resume
Contact
RESUME
One-page Resume
Click the button below to download the PDF. The image preview is optimized for quick viewing.
Download PDF
Download JPG
Print
YUVARAHUL R
Student

- Contact page:



CONCLUSION

- This portfolio website successfully highlights the technical skills, projects, and achievements of my career in a structured and interactive way.
- The portfolio itself also contributes positively by serving as a model for students and young developers who want to showcase their skills professionally.
- Overall, this project is not just a personal showcase but also reflects a broader vision using web technologies to create solutions that improve learning, communication, and opportunities for others in society.

GITHUB LINK

- Github account link:

  https://github.com/Yuvarahul

- Github NM-Portfolio-Project link:

  https://github.com/Yuvarahul/NM-Portfolio-Project.git