

Carl J. Clemons

Software Engineer

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A versatile software developer with one year of frontend experience, proficient in React, JavaScript, Firebase, and other related tools. Passionate about sharpening existing skills, learning new technologies, and applying that knowledge to deliver high-quality work.

Professional Experience

Skinstric AI

[Remote](#) | October 2025 - November 2025

Frontend Engineer

- Built an AI-powered user interface that collected profile inputs and images,
- Integrated two external APIs, one that accepted the user's name and location while the second accepted the user's image.
- Implemented efficient image processing pipeline combining OpenAI Vision API with 4D Mini model for enhanced accuracy in skin tone and texture analysis
- Displayed model-generated confidence scores for attributes like age, gender, and ethnicity.
- Improved UI responsiveness and data-handling efficiency by ~30%, ensuring fast, real-time feedback.
- Developed responsive UI with CSS animations, implementing dynamic age, ethnicity, and gender summary statistics
- Optimized performance using Next.js Server Components, achieving sub-10-second analysis time for the skin demographic conclusion

ECS Southeast LLP

[In-person](#) | June 2024 - February 2025

Staff Project Manager

- Conducted field visits to multiple construction sites to perform soil compaction tests, retaining wall inspections, concrete testing, concrete sample pickups, and rebar supervision
- Inspected soil compaction for building pads, parking pads, and utility lines in accordance with project specifications
- Performed dynamic cone penetrometer (DCP) tests at 3-foot intervals for concrete column footing evaluations to prevent the structure from failing under the projected loading
- Assisted technicians in testing concrete temperature, workability, and air content to ensure compliance with quality standards
- Supervised rebar tensioning to verify proper installation and structural integrity
- Prepared detailed daily field reports documenting findings from each site visit to serve as a legal and historical record of each project
- Supported project managers by helping prepare and complete invoices to raise productivity by ~10%

Projects (personal)

Summarist Project: [Live Demo](#) | [Github Link](#)

Created a fully functional book discovery app

- Built a responsive book discovery app using React Hook Form, React Context, Typescript, and [Next.js](#) with dynamic routing for viewing recommended books, a fully integrated search API, an audiobook page, and a seamless Firebase authentication system.

NFT Project: [Live Demo](#) | [Github Link](#)

Created a fully function NFT marketplace app

- Engineered a responsive NFT marketplace UI using React enabling users to browse the listed artwork from the integrated API with a loading state for smooth data handling, a carousel interface using React-Slick, and a countdown timer.

Technical Skills

Programming Languages: HTML, CSS, JavaScript, TypeScript

Frameworks: React, TailwindCSS, Firebase, React Context, NextJS, Redux, React Hook Form

Tools & Other platforms: Vercel, GitHub, Figma, VsCode, Jest, Stripe, React Testing Libraries, Node.js

Education:

Frontend Simplified | [Certificate](#)

[August 2025 - November 2025](#)

Clemson University | [Transcript](#)

[August 2019 - May 2024](#)

Bachelor of Science in Civil Engineering 3.6/4.0 GPA

Other

Interests: Cuong Nhu Martial Arts, Exercising, Reading

Referees: Provided upon request