

Tavon Graves

Software Engineer

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SUMMARY

Results-driven Software Engineer with over 5 years of experience developing and optimizing responsive web applications using React, TypeScript, JavaScript, and WordPress. Demonstrated success improving user engagement by 25% and decreasing bounce rates through innovative UI design and performance enhancements. Experienced in managing large-scale content updates and ensuring accessibility and SEO compliance for complex platforms, including government projects. Collaborative professional committed to delivering scalable and user-centric digital solutions. Seeking a Software Engineer position where I can bring my skills & expertise to support your mission.

SKILLS

HTML • CSS • JavaScript • React • TypeScript • Sass • Bootstrap • Tailwind • Node.js • Express • MongoDB • PHP • WordPress • Divi • Elementor • WooCommerce • Shopify • Webflow • Drupal • Mailchimp • GIT • Figma • Photoshop • Adobe XD • Excel

TECHNOLOGIES & TOOLS

Google Analytics • Google Search Console • WAVE (Web Accessibility tool) • Manage WP • GoDaddy • Vercel • Litmus • Cursor (AI) • GitHub Copilot

EXPERIENCE

ITCON Services — <https://itcon-inc.com/>

Hybrid

US House of Representatives - Web Support Specialist

01/2025 - 07/2025

Contributed alongside the US House of Representatives, Web Services team performing Front-End Web Development tasks as a 7-month federal contractor under ITCON Services.

- Helped US Congressional offices to communicate with their constituents through the web. Improved constituent engagement by developing and testing 250+ webforms for ticket requests and signups using CSS and JavaScript, resulting in a 30% increase in participation.
- Optimized design, performance, alongside Search Engine Optimization (SEO) across 400+ Congressional websites by creating and updating 1000+ pages, banners, and blocks within the latest Drupal CMS, ensuring consistent user experience while adhering to WCAG accessibility compliance.
- Contributed alongside cross-functional troubleshooting efforts to resolve 20% of critical website issues within 8 daily hours.
- Enhanced House hearing lists accuracy by integrating 50+ internal APIs, improving relevant content accessibility for 1000+ users monthly.
- Accelerated site updates by 40% for 100+ Congressional content editors by providing targeted CMS training and support within Drupal environment.

Gavin — <https://evolving-influence.com/>

Hybrid

Front End Web Developer

03/2022 - 08/2024

Led the Front-End Web Development performance & specialization for the award-winning, Inc. 5000 ranked agency, 'Gavin', based in York, PA.

- Revamped company site for a successful re-launch in July 2022, enhancing marketability through increased views and conversions.
- Played a pivotal role in creating and launching over 15 WordPress websites using the Divi theme, converting design wireframes into functional interfaces.
- Collaborated with design and agency teams to deliver 100% responsive web builds with seamless integration.
- Managed and supported 50+ WordPress client sites, ensuring optimal functionality and user experience with tools like Manage WP and GoDaddy.
- Improved functionality across 350+ site pages using WordPress themes and plugins, boosting user engagement through enhanced Google Ad campaigns by 18%.
- Conducted performance audits resulting in 25% improved loading speeds through techniques like image compression and caching.
- Enhanced SEO, increasing website traffic by 30%, and resolved technical issues by 50% to improve site speed for the agency and clients.

League of Women Voters, Alameda CA — <https://playverifyit.org/>

Remote

Front End Web Developer

01/2022 - 03/2022

Contributed to the rebuild of the Front-End Web Development performance for the 'Verify-it' microsite, founded by the 'League of Women Voters' in Alameda, CA. This was to encourage voters to participate upon the voting game found within the site.

- Improved web traffic by 25% through strategic client and stakeholder communication on web initiatives for the voting game microsite.
- Improved team delivery by 25% while collaborating alongside the Senior Web Developer partnered with the Voting organization.
- Increased engagement rates by 15% towards the voting game through implementing targeted web content specific to the organization.
- Improved the site's user interface by 30% through utilizing front-end web development technologies like HTML, CSS, and JavaScript.
- Enhanced voter accessibility towards the game by 30% through responsive web design for mobile, tablet, and desktop.

PROJECTS

Hall of Zero Limits

<https://immersive-cinematic-ui-test.vercel.app/>

12/2025 - 01/2026

"Hall of Zero Limits" is an immersive 3D web experience reimagining the Sprite x Wakanda Forever site (<https://wakanda-forever-master.dogstudio-dev.co/zerolimits>). Utilizing procedural WebGL with Three.js and React Three Fiber, it generates 3D environments and effects programmatically without pre-built models or heavy assets.

- Architected and developed a fully immersive 3D web application using React 18, Three.js, and React Three Fiber, featuring 8 navigable virtual rooms with procedurally-generated WebGL environments, generating 455+ mesh elements without external 3D model dependencies.
- Implemented a room-based state machine using Zustand for seamless navigation flow, managing complex UI states including modals, hover interactions, and quiz progression covering 25+ state variables, 20+ actions, and 6 data collections.
- Engineered cinematic camera transitions with GSAP animation library, achieving smooth 60fps performance across room navigation with power-easing interpolation.
- Optimized WebGL rendering performance through lazy room loading, efficient particle systems with BufferGeometry, and canvas DPR optimization for high-performance devices.

FolioWeather

<https://folio-weather.vercel.app/>

08/2025 - 10/2025

A modern weather app providing real-time conditions and 5-day forecasts integrating OpenWeatherMap's weather API. Features include geolocation, US-city & global search with autocomplete, favorites, themes, and error handling, powered by React 19, Vite, Express, Node, and MongoDB.

- Provides zero-input onboarding via auto-geolocation, so users can see local weather with no searches upon app load.
- RESTful search endpoints, backed with a 15,000+ US-cities & expansive global database (state/country mapping + coordinate disambiguation) to improve match accuracy.
- Implemented debounced search to surface the right results faster, alongside automatic refresh of weather data to keep views current without manual reloads.
- Ensures responsive layout across desktop/tablet/mobile with modern CSS (Grid/Flex + CSS variables) & React frontend framework.
- Implemented error boundaries & structured error responses for recoverable failures. Contains network-status awareness and offline handling to stabilize UX during API outages.

CERTIFICATIONS

Google: Prompting Essentials — A Google credential (<https://grow.google/>) confirming the possession of specialized skills to manage Generative AI for effective business correspondence.

Google: Digital Marketing & E-Commerce Professional — A Google certification (<https://grow.google/>) confirming the possession of foundational skills within Digital Marketing and E-Commerce.

Responsive Web Design — An advanced course certification from FreeCodeCamp (www.freecodecamp.org) confirming the ability to build responsive websites & applications using Front-End Web Development skills such as HTML, CSS, JavaScript, & React.

HubSpot: SEO Certified — HubSpot's certification (academy.hubspot.com) confirming the ability on how to optimize a website to perform well in search engines with extensive knowledge about Search Engine Optimization.

WebAIM Accessibility Training — A complete virtual instruction & certification provided by WebAIM (www.webaim.org) on how to make websites accessible for people with disabilities.

User Experience: The Beginner's Guide — A certification based on the ability on how to enhance user experience upon web applications, provided by the Interaction Design Foundation (www.interaction-design.org).

Design Thinking: The Beginner's Guide — A certification based on the ability on how to build web applications through the usage of design thinking, provided by the Interaction Design Foundation.

Complete WordPress Developer — A course certification provided by Udemy (www.udemy.com) on the possessed skills required for building websites and applications with WordPress & PHP.

EDUCATION

The University of Baltimore

2012 - 2014

Associate's in Applied Information Technology

Western Tech School of Technology & Environmental Science

2008 - 2012

High School Diploma