# MEDHAT ALKADRI

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## SENIOR WORDPRESS, WOOCOMMERCE & PHP ENGINEER

CUSTOM WORDPRESS ENGINEERING | REACT.JS | THREE.JS (WEBGL) | HEADLESS ARCHITECTURE

Senior full-stack developer with 8 years in WordPress and WooCommerce, building custom themes, plugins (PHP) and interactive React and Three.js front ends. Published a 3D product-configurator plugin on WordPress.org and won CSS Nectar Site of the Day with a Three.js portfolio. Direct AI coding agents to ship faster, cover edge cases and harden security, with every change tested. Native Arabic speaker; RTL and Gulf e-commerce experience.

### STRENGTHS & COMPETENCIES

- Headless CMS Architecture
- Bespoke Theme & Plugin Engineering
- WebGL & Interactive 3D Rendering
- Technical SEO & Core Web Vitals
- RESTful API Integration
- High-Performance Web Optimization

### TECHNICAL SKILLS

- **Backend & Data:** PHP, Node.js, Python, Laravel, MySQL, MongoDB, REST API, CDN, Backend Data Integration.
- **Front-End:** React.js, Vite (plugin development), JavaScript (Ajax, jQuery), TypeScript, HTML5, CSS3, SCSS, SASS, Bootstrap.
- **Interactive 3D:** Three.js, WebGL, GSAP, Blender, GLSL Shaders.
- **CMS & Content Architecture:** Headless WordPress architectures with React.js front ends. WooCommerce extension development with the WordPress Hooks & Filters API. Custom Theme & Plugin Development, built for compatibility with Gutenberg, page builders (Elementor, WPBakery, Bricks, Divi) and popular themes (Astra, GeneratePress, Blocksy). Optimization, Security, Staging, SEO.
- **Infrastructure & DevOps:** Cloud Computing (AWS EC2/LightSail, Digital Ocean, Hosting.com). Domain Settings and Management. Server Management (Nginx, Apache, LightSpeed, cPanel, Webuzo). Operating Systems (CentOS, Ubuntu, Debian). GIT, GitHub Actions (CI/CD), Docker, Postman.
- **Methodologies & Testing:** Agile/Scrum, E2E Testing, Boundary-Value & Pairwise Test Design, Test Automation.
- **AI-Assisted Engineering:** Agent Rules, Skills & Workflows (AGENTS.md), Context & Knowledge-Base Management, AI-Assisted Testing & Documentation (VitePress, generated API reference, READMEs, changelogs), LLM Prompt Engineering, Google Antigravity, Cursor, GitHub Copilot.
- **Design & UX Tools:** Figma, Adobe XD, Adobe Illustrator, Adobe Photoshop.

### HIGHLIGHTED PROJECTS

**Models3D Studio for WooCommerce (published on WordPress.org)**
wordpress.org/plugins/models3d-studio-for-woocommerce

- Built and published a self-hosted 3D product configurator for WooCommerce using Three.js and React Three Fiber, mapping WooCommerce variation attributes to GLB meshes and PBR materials in real time.
- Engineered a variation-sync event bridge between WooCommerce page events and the 3D canvas, and a memory manager that disposes textures and geometries on unmount to prevent VRAM leaks on mobile.
- Raised WooCommerce's 30-variation AJAX ceiling to 500 for 3D-enabled products so variation data is delivered inline and selections update the 3D model without server round trips.
- Built in-browser GLB tooling: pre-flight validation (UV and mesh checks) and a Web Worker optimizer (glTF-Transform) that re-encodes textures to WebP, decimates meshes and protects glossy surfaces, reducing typical product-model size by about 70% on average.
- Integrated Freemius licensing and passed WordPress.org plugin review (free/pro code separation, standard script enqueueing, locally bundled Draco decoders, external-service disclosures).
- Automated the release process: separate packaging pipelines for WordPress.org and Freemius, build-time removal of Pro code from the free edition, and automated Pro deployment through the Freemius SDK.
- Used AI coding agents with audit prompts to harden the plugin (nonce and capability checks, path-traversal and upload-containment fixes, whitelist validation, Plugin Check notices), and wrote the plugin's 31-file VitePress documentation (setup, Free vs Pro, usage), also bundled with the plugin.

**Interactive 3D Web Portfolio & Professional Profiles**
interactive.medhatalkadri.com | medhatalkadri.com

- Built a 3D portfolio engine with Three.js and GSAP, featuring a **Custom WebGL Transition Engine** with cinematic "Rotate-Then-Move" camera orchestration across a square-pyramid scene.
- Engineered a **Zero-Latency Snapshot Caching system** that aggregates WordPress project data into a single precomputed JSON blob, bypassing REST API overhead during initial boot.
- Implemented **Performance-Aware Asset Decimation** and a **Shader Warming Factory**, eliminating WebGL frame stalls of up to 500 ms during scene transitions and targeting 60FPS.
- Built with an AI-agent workflow: custom rules, a WebGPU/Three.js diagnostics skill and a pre-commit audit workflow constrained the agents, which were used to enumerate edge cases (boundary-value, pairwise, WebGL context loss) into 121 E2E and 21 adversarial tests that I verified.
- Used AI to generate developer documentation from source: 340+ JS, PHP and CSS reference pages and a developer guide.

**Accomplishments:**

- **Awarded 'Site of the Day' by CSS Nectar (22 March 2026)**, with a 9/10 public rating in Design, Coding and Creativity.

**Vite-Spector Performance Logger (open-source npm package)**
github.com/MedhatAlkadri/Vite-Spector-Performance-Logger | npm: vite-plugin-spector-perf-logger

- Built and published a Vite plugin that captures WebGL/Three.js traces through Spector.js on a keypress and condenses them into a short Markdown report of draw calls, textures, shaders, JS heap and long tasks.
- Created while optimizing the portfolio so traces can be reviewed quickly, including by AI coding assistants. README and changelog written with AI assistance.

## PROFESSIONAL EXPERIENCE

**INDEPENDENT, REMOTE** **April 2025 - Current**
**Independent Senior Full-Stack Developer (WordPress, WooCommerce & Three.js)**

- Published and licensed WooCommerce software under Alkadri Studio, and built studio.medhatalkadri.com as a block theme with a custom product post type, Freemius checkout, a Freemius webhook endpoint, and tiered pricing with defined support boundaries.
- Sole engineer on three shipped products: a WooCommerce plugin on WordPress.org, a Three.js portfolio theme and an open-source Vite plugin on npm, covering architecture, testing, packaging, documentation and licensing.
- Shipped a WooCommerce 3D product configurator (Models3D Studio) with live variation-driven model updates, Free and Pro editions and bundled documentation.

**ISHRAQWEB, REMOTE** **June 2024 - April 2025**
**Full-Stack Developer**

- Worked in an Agile/Scrum team that delivered 12+ custom WordPress plugins, bilingual RTL/LTR platforms, and complex integrations for enterprise clients (including **Microtec** and **Elite Security**).
- Managed the full-stack development life cycles of WordPress plugins.
- Performed hands-on code reviews and mentored junior developers.

**Accomplishments:**

- Reduced average delivery time by 20%.

**RIZI GROUP, REMOTE** **September 2023 - June 2024**
**Full-Stack Developer**

- Architected scalable web platforms, including **MissUnique**, a luxury e-commerce and booking engine tailored for regional logistics in Kuwait.
- Engineered a **Dynamic Location Pricing module** and **Bespoke Booking Interface** using AJAX and localStorage to handle complex scheduling and geographic pricing thresholds.
- Developed a **Gamified Cart Meter** and **Intelligent Cart Categorization** system to increase Average Order Value (AOV) and segment medical services from retail products.

**Accomplishments:**

- Resolved critical technical debt, resulting in a 25% improvement in overall platform performance and user satisfaction.

**MASARAT ALFANI, REMOTE** **October 2021 - August 2023**
**Senior WordPress Developer / Senior System Administrator**

- Created an automated system using REST APIs to sync external ERP systems (Qoyod API) with internal staff and print pipelines, increasing work efficiency by 34%.
- Managed Linux server installations, routine maintenance, and ongoing system administration procedures.
- Overhauled server security measures to reduce security incidents and vulnerabilities.

**MASARAT ALFANI, REMOTE** **August 2020 - October 2021**
**WordPress Developer / System Administrator**

- Created multiple custom PHP plugins and bilingual WooCommerce stores from scratch (including **Potter Store** and **Hydrate Flask**) to add bespoke functionality such as custom AJAX shop filters and multi-attribute variation systems.
- Optimized platforms for responsiveness, usability, and accessibility, resulting in a significant 15% boost in online purchases.
- Restructured semantic HTML and server processes to improve organic SEO by 80% and optimize page loading speeds down to 1.2 seconds.
- Integrated web platforms with vital analytics and tracking pipelines (Google Analytics, GTM, Microsoft Clarity, Google Ads, TikTok/Snap/Meta Pixels).

**UPWORK, REMOTE** **January 2018 - July 2020**
**Web Developer / React Developer / System Administrator**

- Engineered responsive web applications and custom CMS architectures using raw PHP, JavaScript, HTML5, CSS3, and SCSS.
- Developed and maintained modern web applications utilizing React.js for component-based user interfaces.
- Provided technical support, managing server environments, database backups, malware scans, and error debugging.

## EDUCATION

**BACHELOR OF COMPUTER SCIENCE - Arab Academy for Science, Technology & Maritime Transport** **2019**

- Major: Information Systems / Minor: Software Engineering

## LANGUAGES

**Arabic: Native (ACTFL Distinguished) | English: Fluent (ACTFL Advanced High)**