

JIM TISDALE

jimtisdale1988@gmail.com | (704) 713-8520 | linkedin.com/in/jim-tisdale | github.com/blubagoo

SUMMARY

Senior Frontend Engineer with 8+ years of experience building production-grade web applications in React and TypeScript. Proven track record of building products from the ground up—including onboarding workflows, analytics dashboards, and data visualization platforms in the ad tech space. Currently designing and building autonomous AI systems, including a modular cognitive architecture that integrates knowledge graphs, real-time telemetry, and LLM inference within a governed decision-making framework. Highly effective with AI-assisted development tooling and experienced in identifying reusable patterns that scale AI adoption across engineering teams.

SKILLS

Languages: TypeScript, JavaScript, HTML, CSS, PHP

Frameworks & Libraries: React, Next.js, Nest.js, Node.js, Relay, GraphQL, Tailwind CSS, Material UI

Data & Visualization: PostgreSQL, MongoDB, D3.js, Recharts, analytics dashboards

Testing & CI/CD: Jest, React Testing Library, Playwright, Cypress, Git, Azure Pipelines, CircleCI

AI & Tooling: AI-assisted development workflows, reusable prompt patterns, internal AI tool development

Auth & APIs: RESTful APIs, GraphQL, JWT, OAuth, Bcrypt

EXPERIENCE

Mediavine — Software Engineer III Remote | Nov 2021 – Mar 2025

Senior Full Stack Developer on the ad tech platform serving thousands of publishers. Core builder of multiple product launches and recognized as the team's AI tooling pioneer.

- Built Mediavine's Journey product from the ground up alongside a small team, delivering the full onboarding workflow, analytics engine, and publisher-facing dashboards.
- Served as the primary developer responsible for analytics and data visualization across the company's new and improved dashboard platform, translating complex ad performance data into clear, actionable UI.
- Led internal AI tooling adoption: discovered, evaluated, and built out AI-powered developer tools for company-wide use, identifying reusable patterns that consistently produced high-quality results across teams.
- Developed scalable web applications using React, TypeScript, Node.js, and Nest.js, with PostgreSQL for complex data interactions and optimized query performance.
- Designed and implemented APIs using both RESTful and GraphQL architectures, improving data retrieval and manipulation capabilities across the platform.
- Led cross-functional teams in agile environments, fostering collaboration and aligning project objectives with business timelines.

Tek Systems — React Developer Charlotte, NC | Jul 2020 – Nov 2021

Frontend developer focused on React applications for internal and client-facing projects.

- Built and maintained React applications integrating GraphQL with Apollo for efficient query management and state control.
- Collaborated closely with UX/UI teams to transform designs into functional, responsive interfaces using HTML, CSS, and TypeScript.
- Participated in code reviews and architecture decisions, ensuring best practices and high code quality standards across projects.
- Applied cloud-based technologies to advance project goals and improve development workflows.

Legal Associations Management — Web Developer / Team Lead Dothan, AL | Jan 2019 – Jun 2020

Built membership, event, and legal platform technology solutions serving 10,000+ users. Promoted to Team Lead within 9 months.

- Generated \$50K+ in annual ad revenue as system administrator of a large network of websites.
- Developed a Node.js server for membership validation and digital badge tracking, saving the company \$22.5K annually.

- Extended a WordPress application to iOS/Android using React Native.
- Reduced technical debt by integrating Salesforce and WordPress, eliminating redundant processes.
- Mentored team members with non-technical backgrounds, helping several advance to junior WordPress developer roles.

INDEPENDENT RESEARCH

Sylphie — Cognitive Architecture for Autonomous AI Agents 2024 – Present

Sole architect and developer of a modular cognitive architecture that treats LLMs as inference components within a larger autonomous system—not as the decision-making layer.

- Designed a multi-module architecture (decision-making, communication, learning, planning, drive engine) with strict separation of concerns—LLM outputs are logged against internal state to detect drift and ensure auditability.
- Built a real-time homeostatic drive system on an ESP32 microcontroller broadcasting state across 12 axes at 10Hz, feeding into a tick-based decision loop that operates independently of any language model.
- Implemented a knowledge graph (Neo4j) for identity modeling and associative memory, paired with TimescaleDB for episodic memory and telemetry, and PostgreSQL for rule governance.
- Developed a custom MCP server that exposes the full codebase as a structured, queryable tool for AI-assisted architectural review—enabling efficient code navigation and context retrieval across the entire project.

EDUCATION

Thoughtful Coding Bootcamp Remote | Feb 2018 – Sep 2018

Full-stack web development: HTML5, CSS3, JavaScript, Node.js, React, Redux, MongoDB.