

Zachary Howell

✉ zacharyWD91@yahoo.com ☎ (262) 341-7181 📍 New Berlin, WI 🌐 zhowellportfolio.netlify.app

PROFESSIONAL SUMMARY

Frontend Engineer with 5+ years of experience specializing in high-performance React/TypeScript applications. Expert in crafting responsive, pixel-perfect UIs with TailwindCSS and modern architectures. Proven track record of transforming complex requirements into scalable components and optimizing performance in Agile environments.

EXPERIENCE

AI Engineer Claude Code Project, Anrthropic <ul style="list-style-type: none">• Agentic Workflow Steering: Evaluated and iterated on the claude-hfi CLI tool, directing the AI model through multi-turn interactions to reach production-ready status in complex repositories.• PR Quality Governance: Conducted rigorous technical reviews on AI-generated diffs, enforcing standards for modularity, error handling, and performance optimization.• Technical Logic Validation: Validated complex software tasks including async/await migrations, Boid simulations, and POSIX filesystem logic to ensure 100% correctness and zero-regression.• Tooling & Environments: Utilized specialized CLI environments (tmux/Vs Code) and advanced Git operations to manage worktrees and finalize high-fidelity code submissions.	01/2026 – Present Remote
Frontend Engineer, Freelance <ul style="list-style-type: none">• Architected and deployed enterprise-grade React applications using Vite and TypeScript, delivering 100/100 Lighthouse performance metrics for mission-critical client projects.• Engineered complex RESTful API integrations and real-time dashboards using Firestore, managing high-concurrency data states while ensuring 99.9% production uptime.• Developed modular, accessible component libraries with TailwindCSS, collaborating with stakeholders to translate complex financial and business requirements into intuitive UIs.• Led end-to-end CI/CD automation using GitHub Actions, maintaining rigorous testing workflows and zero-regression deployments across cloud environments.• Optimized system-wide performance by troubleshooting asynchronous data flows and API bottlenecks, balancing immediate UX needs with scalable backend architecture.	10/2025 – Present New Berlin, Wisconsin
Founder & Lead Full Stack Software Engineer, Claw and Decay Clothing <ul style="list-style-type: none">• Architected a high-concurrency e-commerce platform using React, TypeScript, and Vite, achieving 100/100 Lighthouse scores through aggressive performance optimization.• Engineered complex global state management (real-time inventory and multi-step checkout) using React Hooks and Context API to ensure high-performance rendering under heavy production loads.• Integrated secure RESTful payment and fulfillment APIs (Stripe, Printify) using robust asynchronous patterns and error boundaries to maintain 99.9% uptime during traffic spikes.• Established Git-based CI/CD workflows and automated deployment pipelines, managing the full technical roadmap to support sudden spikes in concurrent traffic.• Collaborated across the full delivery cycle by conducting systematic cross-browser testing and mobile optimization for iOS, Android, and desktop.• Leveraged a modular state architecture to facilitate the seamless integration of third-party logistics and payment tools.	01/2024 – Present New Berlin, WI
Software Engineer (Frontend & Integrations), North American Fulfillment <ul style="list-style-type: none">• Spearheaded Angular and Java/Spring Boot development for 60+ enterprise client dashboards, delivering high-performance data visualizations with 99.9% production uptime.• Engineered productivity-focused tooling by implementing virtual scrolling and efficient data-fetching patterns, reducing load times by 3x for complex financial data sets.• Collaborated with UX and Product teams to translate complex financial and logistics requirements into clean, maintainable code, ensuring pixel-perfect layouts across all enterprise browsers.• Optimized mission-critical UIs and APIs by troubleshooting rendering bottlenecks and backend integration failures, ensuring seamless performance under high-concurrency production traffic.• Owned the end-to-end delivery cycle within an Agile environment, leveraging AWS (S3, Lambda) and REST APIs to build robust, scalable internal tools.• Modernized performance-heavy data tables using memoization and virtual scrolling, maintaining high responsiveness when handling massive enterprise datasets.• Architected scalable system designs by containerizing legacy frontend services with Docker and Kubernetes, streamlining the transition from on-premises infrastructure to cloud-native AWS environments.	08/2021 – 08/2025 Brookfield, WI

EDUCATION

Full Stack Web Development Bootcamp Certificate, UWM Extended Campus Online
24-week intensive program focused on MERN stack, modern JavaScript, and backend development.

TECHNICAL SKILLS

Frontend & UI Architecture: React.js (Hooks, Context API, Redux Toolkit), TypeScript, React Native, JavaScript (ES6+), HTML5, CSS3, Tailwind CSS, Vite, GSAP, WCAG Accessibility, Lighthouse Optimization, Webpack	Backend & API Development: Node.js (Express/NestJS), Java (Spring Boot/ETL), Python, RESTful API Design, gRPC, WebSockets, Microservices Architecture, MS SQL/PostgreSQL (querying/schema), .NET Core familiarity
Cloud & DevOps: AWS (S3, Lambda, EC2, Glue), Docker, Kubernetes, Terraform (Infrastructure as Code), GitLab/GitHub CI/CD, Netlify, Google Secrets Manager, Environment-based configuration	Data & Database Systems: PostgreSQL, DynamoDB, Firebase/Firestore, AWS RDS, MongoDB, SQL (Query Optimization), Data Modeling