

# Peter F. Tumulty

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## SENIOR SOFTWARE ENGINEER

AI-forward full-stack engineer with 10+ years of experience building high-performing web applications across enterprise and startup environments. Champion of AI-driven development — leading the adoption of Coding Agents to accelerate delivery and push the boundaries of modern engineering. Proven mentor and technical leader with a track record of driving modernization initiatives, managing cross-functional teams, and translating complex business needs into fast, reliable, and maintainable software. Seeking a senior or staff engineering role where AI integration, engineering craft, and team development are core to the mission.

## EDUCATION

Southern New Hampshire University, Manchester, NH

**Bachelor of Science in Computer Science**

June 2024

- 3.9 GPA

Devry University, North Brunswick, NJ

**Associate of Arts in Web & Graphic Design**

April 2013

- 3.8 GPA (Valedictorian)

Hunter College, New York, NY

**Bachelors of Arts in English**

January 2010

## CERTIFICATIONS & LICENSES

AI Engineering | Overclock Accelerator

2025

Full-Stack Developer Nanodegree | Udacity

2020

Cloud Developer Nanodegree | Udacity

2020

React Developer Nanodegree | Udacity

2018

## CORE COMPETENCIES

Claude Code · Cursor · GitHub Copilot · Multi-Agent Orchestration · Agent Skills & MCP Integrations · Prompt & Context Engineering · Spec Driven Development · Scripting & Prototyping · TypeScript · JavaScript · Node.js · React.js · Next.js · GraphQL · PHP · Laravel · Python · SQL · NoSQL · Docker · AWS · GCP · Azure · CI/CD · Git · GitHub Actions · GitLab CI/CD · Apache Airflow · Monorepos · Jest · React Testing Library · Playwright · TestCafe · SonarQube · OpenObserve · Splunk · E2E Testing · Automation Testing · Regression Testing · Agile/SDLC · Web Performance Optimization · JIRA · Confluence · Team Leadership & Mentorship · Engineer Onboarding · Cross-functional Collaboration · Stakeholder Communication · Hiring & Interviewing · Technical Roadmap Planning

## PROFESSIONAL EXPERIENCE/ADDITIONAL PROFESSIONAL EXPERIENCE

Walmart Global Tech (Bentonville, AR)

October 2023 - Current

**Software Engineer**

- Lead large-scale frontend modernization initiatives and architectural enhancements for high-traffic web applications, driving major technical debt migrations and delivering unified, user-friendly solutions across complex business workflows. Champion the adoption of AI-powered development tools to accelerate team delivery and maintain high-quality production standards.

- Mentor and onboard engineers and contractors, leading code review oversight, documentation, and hands-on walkthroughs to drive team integration, uphold development standards, and foster a culture of maintainable, secure, and high-quality code.
- Partner with cross-functional teams, senior architects, and principal engineers to drive scalability, reliability, and performance improvements across high-traffic systems — leading analytics dashboard development, championing the adoption of emerging technologies, and establishing continuous monitoring practices to proactively identify and resolve issues.

Tumulty Web Services (Brick, NJ)

October 2021 - October 2023

**Owner, Lead Full-Stack Developer**

- Consulted for startups, small businesses, and digital agencies, delivering custom web applications, SaaS platforms, business automation scripts, and custom APIs tailored to each client's unique operational and growth needs.
- Architected complex digital event web applications with real-time communication and live video capabilities, and led Shopify development engagements to build custom storefronts, integrations, and e-commerce features for multiple clients.
- Partnered with a digital tools startup to develop and scale e-commerce platform solutions, while providing clients with strategic direction on web performance, SEO, and UX to enhance online presence and drive profitability.

Vault Innovation Group (Chicago, IL)

January 2022 - February 2023

**Senior Software Engineer**

- Partnered with e-commerce and legal tech startups in a full-stack capacity, delivering sophisticated software solutions across diverse platforms within a fast-paced Scrum/Agile environment.
- Built a sophisticated multi-tenant logging system for a legal tech startup, engineering a Laravel backend and React frontend to provide clients with real-time visibility into user activity and system events.
- Developed a multi-tenant e-commerce marketplace platform using Next.js and Python, and a headless Shopify storefront with a Next.js web app and React Native mobile app for a jewelry e-commerce brand, delivering seamless cross-platform shopping experiences.

Scarinci Hollenbeck (Lyndhurst, NJ)

December 2013 - April 2021

**Lead Full-Stack Developer**

- Architected the firm's primary website on a modern stack — Next.js/React/GraphQL frontend on Vercel, headless WordPress CMS on Digital Ocean, Algolia search, and Mailchimp integration — while provisioning and managing multiple dedicated LAMP stack Ubuntu servers to host the firm's network of blog sites.
- Built custom PHP and React.js features across the firm's blog network, developed an automated email marketing pipeline for the patent practice that processed lead spreadsheets and triggered targeted outbound campaigns, and led the firm's intranet migration from a legacy HTML/CSS system to a modern SharePoint platform.
- Designed and built a custom marketing management platform using React and PostgreSQL, centralizing attorney marketing initiatives with budget allocation controls and performance metrics tracking for the firm's marketing operations.