

Jonathan Dewitt

jon@jonathandewitt.dev | linkedin.com/in/jonathandewittus | github.com/jonathandewitt-dev

Engineering Leader & Product Innovator

Architecting scalable systems and driving product velocity across enterprise and start-up environments.

Engineering leader with proven strength architecting systems and innovating products from zero to launch. Blend deep technical expertise with founder-level product instincts, taking full ownership of technical direction and business strategy as a solo technical founder. Design shared infrastructure that eliminates friction and drives consistency across enterprise engineering teams. Known for turning fragmented, siloed teams into fast-moving, design-consistent engineering cultures.

**Engineering Strategy & Roadmap Development • Full Stack Architecture • SaaS Product Development • Agile Transformation
Ensemble Programming • Trunk-Based Development • Component Library Design • Design System Implementation
CI/CD Pipeline Architecture • Shift Left Testing • Cross-Team Collaboration • Developer Experience Optimization**

Career Highlights

- Architected a SaaS product from zero to market launch without external funding, handling full stack infrastructure, database design, API development, and front-end delivery as a solo technical founder.
- Engineered a unified front end component library for a global financial institution, driving early adoption across 3 application teams, eliminating design drift and reducing duplicated UI code organization wide.
- Translated mentorship from Agile Manifesto co-author Jon Kern and mob programming creator Woody Zuill into hands-on adoption of collaborative development practices across engineering teams.

PROFESSIONAL EXPERIENCE

Thunder Solutions, LLC | Greater Pittsburgh Area, PA 2020 - Present

Technical Lead and Founder

Conceptualized and built 2 software products, one successfully launched publicly, the other currently in development. Own all technical decisions, infrastructure architecture, product strategy, and go-to-market execution while serving as primary technical advisor to startup founders and small business CEOs.

- Designed and launched Stormy (stormycms.com)**, a commercial SaaS code-first headless CMS that unified schema and application code in a single repository, addressing a market gap for solo developers and small teams.
- Created Thunderous, an open-source web component library published on NPM**, providing developers with a reactive, lightweight alternative to framework-heavy component architectures.
- Engineered full-stack applications for clients**, owning database design, back-end APIs, cloud infrastructure, and front-end UI delivery end-to-end.

Bank of New York Mellon (BNY) | Pittsburgh, PA 2024 - Present

Full Stack Software Engineer

Orchestrated and drove engineering excellence and organizational transformation across the global trading platform. Modernized development practices across 20+ high-performing engineering teams while championing collaborative real-time development models and automated quality enforcement.

- Championed ensemble programming across 2 teams of 10–15 members**, replacing siloed ticket assignment with collaborative real-time development that improved code quality and strengthened team cohesion.
- Introduced trunk-based development with automated quality gates**, replacing feature branching to catch regressions before deployment and reduce merge friction across engineering teams.

- **Eliminated "broken sprints" entirely (from 100% flagged)** while reducing escaped defects to 1 across 3 releases, down from 2+ per sprint.
 - **Increased release cadence from 6 months to 2.75 per month**, cutting delivery time for major tech upgrades from 3+ weeks to under 3 days.
 - **Reduced merge overhead by 73%**, easing cross-team collaboration friction.
- **Architected and published a unified front-end component library for the trading platform**, driving early adoption across 3 of 10+ application teams, reducing duplicated UI code, and establishing brand consistency. Built the roadmap for full-platform rollout.
 - **Championed adoption of shift-left testing by consolidating siloed QA test code into the shared engineering repository** and migrating QA ownership into engineering squads, eliminating bottlenecks between QA and development teams.
 - **Recognized as a top peer-nominated performer across 10+ teams**, receiving the highest volume of manager-approved peer recognition awards for high-impact contributions.

Industrial Scientific | Pittsburgh, PA

2023 - 2024

Full Stack Software Engineer

Advanced platform capabilities and engineering practices, delivering new features while catalyzing cultural shifts toward modern tooling and collaborative development methodologies.

- **Delivered a new interactive map feature for the device monitoring platform using React**, completing the build within 2 sprints after persuading leadership to adopt React over the legacy stack.
- **Initiated development of a shared component library**, guiding the team through NPM package publishing, semantic versioning, and internal distribution for the first time, establishing reusable patterns adopted across future initiatives.
- **Introduced ensemble programming practices to the engineering team**, shifting team culture toward collaborative development and influencing broader conversations on Agile process improvement.

Digital Management (DMI) | Remote

2019 - 2021

Senior Front End Developer

Advanced to senior role based on demonstrated mentorship, technical leadership, and consistent delivery beyond assigned scope. Recognized for establishing engineering standards and stabilizing team delivery during periods of organizational transition.

- **Re-architected a national furniture retailer's fabric preview configurator**, moving rendering from server-side to client-side, cutting page load time from ~2 minutes to near-instant, and improving browsing experience for high-traffic product pages.
- **Stepped into an acting team lead role**, providing daily guidance, resolving technical debates among senior peers, and stabilizing sprint delivery while mentoring junior developers and establishing reusable code patterns.

EARLIER EXPERIENCE

Software Developer | PNC Financial Services | Pittsburgh, PA

Front End Web Developer and Designer | Drift2 | Pittsburgh, PA

AWARDS & HONORS

- President's List, Westmoreland County Community College (2009-2011)
- Phi Theta Kappa Honor Society

COMMUNITY & INDUSTRY CONTRIBUTIONS

- Personal mentee of Jon Kern, co-author of the Agile Manifesto, and collaborator with Woody Zuill, creator of mob programming.
- Published CollabHour, an Agile framework developed with support from Jon Kern (<https://collabhouragile.org>), and introduced to engineering teams at BNY.
- Open-source maintainer: Thunderous web component library (<https://www.thunderous.dev/>)

EDUCATION

Associate of Applied Science in Graphic Design and Animation - Westmoreland County Community College

TECHNICAL SKILLS

Languages: JavaScript • TypeScript • Java • C# • Rust • HTML5 • CSS3 • SQL

Frameworks & Libraries: React • Angular • Vue • Web Components • Node.js • Spring Boot • Express.js • GraphQL • REST APIs

Styling & Tools: Tailwind CSS • CSS Modules • NPM • Vite • Webpack • Git • Docker • GitHub Actions • GitLab CI

Databases & Infrastructure: PostgreSQL • MongoDB • AWS (EC2, S3, Lambda, RDS) • Azure • Google Cloud Platform • Headless CMS • WordPress

Practices & Methodologies: Ensemble Programming • Trunk Based Development • CI/CD Pipeline Design • Shift Left Testing • Agile • Mob Programming • Pair Programming • Test Driven Development