

Emily McCabe

Senior Software Engineer | Developer Platforms and Full-Stack Product Engineering

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SUMMARY

Senior engineer with 15+ years building production software across developer platforms, SaaS products, and large-scale regulated systems. Specializes in turning ambiguous, workflow-heavy requirements into configurable, production-ready platforms, operating across architecture, product direction, full-stack implementation, and long-term ownership.

Currently leading zero-to-one product initiatives across developer tooling and healthcare on a small founding team, from independent feature conception through production rollout. This spans building full-stack observability platforms, multi-tenant SaaS applications, and large-scale production systems, with hands-on experience in product discovery, developer experience, complex workflow design, stakeholder collaboration, and technical leadership.

TECHNICAL SKILLS

Architecture Multi-tenant SaaS, serverless AWS (Lambda, AppSync, DynamoDB, S3, Cognito), data isolation, versioned JSON-driven configuration, event-driven architecture, complex workflow automation

Frontend React, TypeScript, Next.js, Vite, Tailwind CSS, config-driven forms, role-aware navigation, accessibility (WCAG and Section 508)

Backend and Data Node.js, Python, GraphQL/AppSync, RESTful APIs, AWS Lambda resolvers, data modeling, third-party integrations, PostgreSQL/MySQL, DynamoDB

Developer Tooling and Observability Session replay, distributed tracing, error tracking, analytics, SDK integration, telemetry correlation, functional testing, debugging workflows, developer experience

Leadership and Product Product discovery, requirement shaping, UAT strategy, stakeholder communication, scope and tradeoff management, mentoring, vendor coordination

Healthcare and Compliance HIPAA, PHI protection, EMR workflows, least-privilege RBAC, audit trails, de-identification

PROFESSIONAL EXPERIENCE

Senior Software Engineer (Director of AI Strategy and Innovation) - JustBard Technologies

Brunswick, MD | May 2025 to Present

Core member of a small founding team building developer-platform and healthcare products from the ground up. Contribute across engineering, product, business strategy, and go-to-market planning, translating product vision into production software while shaping decisions spanning product strategy, technical direction, marketing, pricing, beta programs, customer feedback, and feature prioritization. Lead major initiatives from concept through production, combining product thinking with hands-on full-stack engineering.

JstVerify - developer observability and analytics platform

- Co-led product evolution of a full-stack observability platform spanning session replay, distributed tracing, error tracking, analytics, application mapping, functional testing, and AI-assisted investigation, contributing across product strategy, architecture, frontend, backend APIs, cloud infrastructure, and developer experience.
- Conceived, named, designed, and independently built JstVision, the platform's flagship investigation experience and unified debugging workbench that connects session replay, frontend behavior, API activity, backend traces, and errors into one synchronized interface for cross-stack debugging. Built and demoed the first working prototype before it was formally adopted into the product roadmap.

- Served as a primary engineer across a 200+ file React/TypeScript codebase, leading major platform capabilities from concept through production while partnering closely with the founder on technical design, product direction, and developer experience.
- Designed investigation workflows and interfaces that reduce context switching during root-cause analysis while making deeper technical context readily accessible without overwhelming everyday debugging workflows.
- Built UI for trace-derived service mapping, technical context panels, AWS security findings, and functional testing workflows, working across the stack with AppSync, Lambda, DynamoDB, and third-party integrations.
- Designed, built, and authored the public product website and feature pages including information architecture, visual design, UI implementation, and technical content.
- Authored the "visibility gap" product narrative that became central to JstVerify's messaging, competitive differentiation, and go-to-market strategy.
- Validated SDK, instrumentation, and distributed tracing support by designing representative full-stack applications across multiple frontend and backend technology stacks to verify end-to-end observability workflows.
- Shaped the developer-facing experience for WILMA, the platform's AI-assisted analysis feature, integrating LLM output with trace data to produce usable debugging guidance.

Stack: React, TypeScript, Vite, Node.js, GraphQL/AppSync, AWS Lambda, DynamoDB, S3, Cognito, serverless, Python (CDK), Stripe.

Tempo EMR - multi-tenant pediatric therapy practice management platform

- Core product engineer on a serverless, AWS-native, multi-tenant EMR spanning patient intake, scheduling, clinical documentation, billing, insurance, caregiver access, reporting, and staff operations, contributing across product strategy, application architecture, backend services, and full-stack implementation.
- Ran substantial in-person discovery and led milestone-based user acceptance testing. Shadowed therapy sessions, interviewed OT and speech therapists, billing and office staff, caregivers, and clinic leadership, mapped roughly 50 functional requirements to the build timeline, ran weekly client status meetings, and managed a roughly 1,000-item change-request and acceptance tracker.
- Designed and built the platform's configurable digital intake system, transforming paper onboarding into a versioned, JSON-driven workflow with dynamic form rendering, progress tracking, review flows, and AppSync/Lambda persistence, enabling clinics to evolve onboarding requirements without software releases.
- Shaped product scope and requirements by partnering with stakeholders to uncover the underlying operational need, challenge unnecessary assumptions, surface tradeoffs, and deliver simpler, higher-value solutions by eliminating unnecessary complexity before it became engineering work.
- Designed and built the platform's role-aware, context-aware workspace model and navigation, dynamically adapting routing, available actions, and application context while enforcing least-privilege access. Enabled clinicians and administrative staff to work seamlessly within patient- and cohort-scoped workspaces without repeatedly searching, filtering, or losing workflow context.
- Co-led migration off a legacy EMR with no supported export path. Reverse-engineered the undocumented data model across 24+ data domains and 50+ API endpoints, then built and validated a Python extraction of roughly 10,000 patient records with automated completeness and relationship checks.
- Discovered and documented eight critical security vulnerabilities in the legacy source EMR through hands-on platform analysis, including broken multi-tenant isolation, frontend-only authorization bypass, SQL injection, exposed password hashes, and PHI leakage to third-party logs. Authored the executive vulnerability assessment and responsible disclosure report submitted directly to the vendor.
- Designed the data and feature strategy for the platform's planned predictive models, scoring field completeness to judge what the data could support, selecting predictive outcome variables, and building a HIPAA de-identification pipeline that transformed production clinical datasets into privacy-preserving, model-ready training data.

Stack: React, TypeScript, Node.js, GraphQL/AppSync, AWS Lambda, DynamoDB, S3, serverless, Python (CDK).

Senior Full-Stack Developer / Supervisory IT Specialist - U.S. Census Bureau

Suitland, MD / Remote | 2012 to May 2025

- Built, modernized, and supported 70+ federal data-collection and reporting systems for Census and partner agencies including NSF, BLS, and the U.S. Dept. of Education, serving millions of respondents and thousands of internal staff.
- Partnered directly with sponsor agencies to translate business goals and loosely defined ideas into technical requirements, data models, and roadmaps, then built and owned the resulting applications as primary developer and long-term production owner.
- Owned recurring sponsor data workflows including scheduled input files, validation, production loads, partner-agency issue resolution, crosswalk mapping, structured XML and formatted output, and interaction telemetry for debugging and data quality.
- Built secure, mobile-responsive, Section 508-accessible interfaces handling sensitive PII under Title 13 and Title 26 confidentiality requirements.
- Promoted into supervisory leadership. Ran performance reviews, hiring, mentoring, and code reviews while staying hands-on in development, debugging, and production support.

Stack: Perl, Catalyst, JavaScript, jQuery, SQL/MySQL, Linux, Template Toolkit.

Software Developer (Contractor) - Quotient Inc. (U.S. Census Bureau)

Suitland, MD | 2010 to 2012

- Built and maintained full-stack features and production support for federal data-collection systems.

EDUCATION

B.S., Bioinformatics, Minor in Mathematics - Towson University, 2009. Additional graduate-level CS coursework.