

EVAN MARIE CARR

Principal Product Architect | Senior UI Engineer | UX/Product Designer | AI-Integrated Systems Builder

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PROFESSIONAL SUMMARY

Principal Product Architect, Senior UI Engineer, UX/Product Designer, and AI-integrated systems builder with 15+ years of experience creating polished, production-ready digital experiences across frontend engineering, UI/UX design, product architecture, educational technology, AI implementation, structured content systems, and workflow optimization. Co-Founder and Lead Design Engineer at Lumi Forge / DarkViolet.ai, where I architected and built an AI-powered interactive content platform that transforms books, courses, articles, and long-form materials into dynamic, gamified exploration experiences.

My strongest throughline is optimization: identifying what is inefficient, unclear, disconnected, or underbuilt, then designing systems that make the work smoother, smarter, more scalable, and more human. I bring a rare combination of technical depth, product judgment, design sensitivity, educational expertise, AI fluency, and communication skill. I am especially well-suited for roles involving frontend development, UX/UI design, design engineering, product systems, AI implementation, learning technology, content systems, workflow automation, data-rich interfaces, and complex digital product development.

TARGET ROLE AREAS

Frontend Engineer | Senior UI Engineer | UX Engineer | Design Engineer | UI/UX Developer | Product Designer | UX Designer | Product Architect | Technical Product Builder | AI Implementation Specialist | AI Workflow Consultant | Educational Technologist | Learning Experience Designer | Curriculum Systems Architect | Content Systems Designer | Digital Experience Architect | Data Visualization Developer | Technical Operations / Systems Improvement Roles

CORE STRENGTHS

Product Architecture & Systems Design | Frontend Engineering | UI/UX Design | Design Engineering | High-Fidelity Interface Development | Human-Centered AI Implementation | AI-Integrated Product Development | Educational Technology | Curriculum Architecture | Interactive Content Systems | Gamified Learning | Structured Content Modeling | Publishing Workflows | Workflow Design | Process Optimization | Automation | Data Visualization | Learning Analytics | Performance Feedback Systems | Accessibility-Forward Design | Neurodiverse Learning Support | Cross-Functional Product Strategy | Technical Consulting | Stakeholder Communication | Complex Problem Translation

TECHNICAL SKILLS

Frontend & Frameworks: React | Remix | Next.js | Angular | Svelte | Vue | TypeScript | JavaScript | HTML5 | CSS3 | JSX | jQuery | Bootstrap

UI, Motion & Design Systems: Tailwind UI | Framer Motion | Advanced CSS Layouts | CSS Grid | CSS Flexbox | Responsive Design | Cross-Platform Interfaces | Component-Based Design Systems | Animation | Visual Refinement | Accessibility-Forward Design | Design-to-Code Handoff

AI & Machine Learning: Generative AI | LLM Integration | Prompt Engineering | Structured AI Output Prompting | AI-Assisted Development Workflows | ChatGPT | Claude | DALL-E | Stable Diffusion | Conversational AI | NLP | Sentiment Analysis | Computer Vision | Image Classification | Machine Learning | Deep Learning

Backend, Data & Infrastructure: Python | Node.js | REST APIs | SQL | GraphQL | AWS | Google Cloud Platform | CI/CD Pipelines | Data Pipelines | Data Engineering | Scalable Backend Systems | Databases | Unix | Git | GitHub

Data Science & Visualization: Pandas | NumPy | scikit-learn | TensorFlow | PyTorch | Keras | Matplotlib | Seaborn | Plotly | Tableau | Dashboards | Predictive Modeling | Time Series Forecasting | Data Analytics | Data-Rich Interfaces

Mobile Development: React Native | Expo | Swift | iOS Development | Android Development

Design & Creative Tools: Figma | Adobe XD | Adobe Illustrator | Adobe Photoshop | Adobe Creative Suite | Prototyping | Wireframing | Graphic Design | Brand Design | Generative Art Integration | AI Image Pipelines

Education & Learning Systems: Curriculum Design | K-12 Curriculum Development | Collegiate-Level Curriculum Development | ACT/SAT Preparation | Instructional Design | Interactive Online Learning | Automated Grading Pipelines | Learning Analytics | Personalized Learning Pathways | Spiral Learning | Multimodal Instruction | Neurodiverse Accessibility | Visual Supports | Flexible Pacing

PROFESSIONAL EXPERIENCE

Co-Founder, Lead Design Engineer

Lumi Forge / DarkViolet.ai | Alpharetta, GA | Oct 2025 to Present

- Designed and built Lumi Forge from the ground up, an AI-powered interactive content platform that transforms books, courses, articles, and long-form materials into dynamic exploration experiences.
- Led product architecture across UX, content structure, frontend interaction models, AI generation workflows, publishing logic, and learning experience design.
- Architected and implemented the Creator Studio, a multi-step content authoring environment featuring drag-and-drop block editing, contextual regeneration controls, source-based content workflows, and direct HTML editing.
- Built a layered content modeling system across Resources, Content Parts, Explorations, Micro-Explorations, and Luminations, supporting complex structured data workflows from raw source material to published interactive learning experiences.

- Integrated real-time AI generation pipelines with live progress streaming, configurable tone, layout, and lumination count, enabling long-form exploration content, structured knowledge cards, and swipeable sequences within a single workflow.
- Developed five interactive knowledge-building game interfaces, including Thumbs, Think Fast!, Letter by Letter, The Prism, and Synthesis, with XP tracking, feedback flows, and spaced repetition sequencing.
- Implemented a swipeable Micro-Explorations format with frame-level editing, client-side explorer simulation, mock XP, completion flows, and configurable frame-type balancing.
- Built the Asset Manager with drag-and-drop upload, AI image generation, organized dated storage, grid and list view toggles, and platform-wide availability across image pickers.
- Designed and built the Illustrator Studio, an AI image-generation tool with a layered prompt-architecture system that combines a curated visual style, a composition mode, and plain-language input to produce art-directed images without prompt-writing expertise.
- Integrated multiple image-model providers behind one consistent interface, added typography-aware input for accurate rendered text, and secured the public generation endpoint with reCAPTCHA verification before any model call.
- Designed and shipped the full explorer-facing experience, including adaptive pathways, contextual pause points, progress tracking, and accessibility-forward inclusive design.
- Created structured authoring, publishing, and learning workflows that connect frontend engineering, product strategy, UX design, AI generation, and scalable content operations.

Lead Frontend Developer & AI Curriculum Architect

Learn With Lumi / Dark Violet | Alpharetta, GA | 2024 to Present

- Designed, architected, and built an end-to-end K-12 educational platform delivering AI-integrated course experiences, ACT/SAT test preparation, full core curriculum, and elective learning pathways.
- Engineered the complete frontend using React, Remix, Tailwind UI, and Framer Motion, with emphasis on interactive UI flows that make complex educational content clear and engaging.
- Built and maintained a component-based design system powering responsive, cross-platform interfaces across the full platform.
- Developed backend infrastructure using Python and REST APIs to support automated grading, real-time analytics pipelines, personalized content delivery, and high-performance data access.
- Created curriculum structures from open-source and high-quality educational materials, including lesson plans, textbook-based notes, assignments, reflections, quizzes, interactive activities, and AI-enhanced learning tasks.
- Implemented accessibility features for neurodiverse learners, including flexible pacing controls, visual supports, multimodal instruction patterns, and family-facing progress visibility.
- Designed learning experiences that supported measurable improvements in academic outcomes, writing quality, student engagement, motivation, vocabulary, and creative depth after live use.
- Brought together educator judgment, AI tooling, curriculum architecture, UX design, and software engineering to create a learning system that adapts to individual students rather than forcing every student through the same path.
- Developed user-facing learning dashboards, progress visibility patterns, interactive course flows, assessment structures, and content experiences that help students understand, practice, and retain complex material.

Co-Founder, UI/UX & Full-Stack Developer

DarkViolet.ai | Alpharetta, GA | Ongoing

- Led product design and frontend development for AI-driven consumer, creative, and educational web applications at the intersection of brand, design, engineering, and human-centered AI.
- Architected reusable UI/UX systems using React, Remix, and Tailwind UI, with a focus on performance, usability, accessibility, emotional resonance, and visual polish.
- Built and released the flagship mobile app Dreams and Divinations for the iOS App Store using React Native and Expo.
- Built The Discovery Space, an AI-guided reflective discovery platform that helps individuals and teams explore strengths, patterns, growth edges, communication, decision-making, leadership, learning, role fit, and collaboration through guided prompts and selectable methodology lenses, designed as a developmental conversation tool rather than a clinical assessment or standalone hiring decision system.
- Integrated advanced AI technologies, including LLMs, NLP, sentiment analysis, AI image generation, and conversational AI patterns, into production consumer interfaces.
- Developed scalable backend systems using Python, REST APIs, and AWS services to support multi-product deployments.
- Designed AI-powered experiences that emphasize agency, exploration, reflection, and active engagement rather than passive content consumption.
- Contributed to brand, product direction, interface design, frontend architecture, backend workflows, and technical implementation across DarkViolet.ai properties.
- Created digital products that required close coordination between UX design, AI logic, frontend engineering, backend architecture, content structure, and user-centered product strategy.

Freelance Consultant, Data Engineering & Frontend Development

Alpharetta, GA | Prior

- Delivered custom frontend solutions across React, Angular, Remix, and related modern web frameworks for clients ranging from startups to established businesses.
- Built interactive data visualization dashboards that translated complex datasets into clear, actionable interfaces for strategic planning and operational decision-making.
- Engineered end-to-end data pipelines using Python, bridging frontend experiences, backend workflows, analytics, and high-performance applications.
- Created responsive web applications using HTML, CSS, JavaScript, Python, and modern frontend tooling.
- Supported clients through technical consulting, problem-solving, workflow improvement, interface refinement, and full project lifecycle execution.
- Helped clients clarify technical needs, organize complex information, improve digital workflows, and turn abstract requirements into functional web experiences.

Owner, UI/UX, Web Design & Technology Services

Evan Marie Studio | Atlanta, GA

- Founded and operated a full-service development and education studio providing UI/UX design, web development, technical consulting, educational services, and branding support.

- Developed responsive websites, digital assets, and interactive web experiences using HTML, CSS, JavaScript, Python, and design-focused frontend workflows.
- Designed marketing campaigns, instructional content, creative assets, and digital experiences for long-term client success.
- Managed full project lifecycles from concept through design, development, deployment, refinement, and ongoing support.
- Combined business operations, client communication, technical execution, and creative strategy to deliver practical digital solutions for varied needs.
- Translated client goals into clear design direction, usable web structures, organized content, visual assets, and maintainable digital systems.

Owner & Lead Educator

Evan Marie Studio | Atlanta, GA

- Provided intensive one-on-one instruction to students across age groups and skill levels in voice, piano, guitar, music theory, music history, and performance.
- Designed individualized learning pathways tailored to student goals, learning styles, pacing needs, confidence levels, and cognitive approaches.
- Maintained strong student retention through adaptive teaching methods, positive reinforcement, individualized progress tracking, and strong student relationships.
- Developed expertise working with neurodiverse learners, students with learning differences, and non-traditional learners.
- Guided students from early lessons through public performance, building technical mastery alongside confidence, interpretive skill, and stage presence.
- Brought the same learning-design philosophy into later educational technology work: curiosity first, structure second, and clarity always.

Freelance Book Editor

Mel Bay Publications | Atlanta, GA

- Edited and managed production of 12 instructional books by Misha Stefanuk.
- Provided developmental feedback and refined technical language to improve clarity, structure, accuracy, and instructional usefulness.
- Supported educational publishing through detail-oriented editing, content organization, and reader-focused communication.
- Strengthened complex instructional material by improving flow, sequencing, clarity, and usability for learners.

President, Web Development & Marketing

The New Opera of Atlanta | Atlanta, GA

- Oversaw digital presence, branding, and outreach strategy for a performing arts organization.
- Supported audience engagement through web, marketing, and media initiatives.

- Combined arts leadership, communication strategy, and digital execution to support organizational visibility.
- Created and refined public-facing digital materials with attention to audience experience, messaging, and visual presentation.

Account Manager

American Merchandise Corp | New York, NY

- Managed the national Saks Fifth Avenue account and supported strategic merchandising initiatives.
- Coordinated client communication, account needs, and operational details in a fast-paced business environment.
- Balanced stakeholder expectations, product presentation, business priorities, and follow-through across account needs.

Executive Administrator

Spherion Executive Legal Staffing | New York, NY

- Supported high-level legal teams with scheduling, communications, office management, documentation, and administrative coordination.
- Maintained organized records, professional communication, and deadline-sensitive follow-through in a high-trust environment.

SELECTED SYSTEMS, PRODUCT & OPERATIONS HIGHLIGHTS

- Built AI-powered content and learning systems that turn static source material into interactive exploration experiences, structured knowledge cards, swipeable sequences, and gamified learning flows.
- Designed creator-facing and learner-facing interfaces across structured authoring, content editing, publishing, asset management, adaptive pathways, and progress tracking.
- Created reusable frontend design systems and component patterns that support responsive, cross-platform, high-fidelity web experiences.
- Built data-rich interfaces, dashboards, learning analytics tools, and performance feedback systems that make complex information easier to understand and act on.
- Integrated AI generation pipelines into live product workflows, including configurable tone, layout, content structure, progress streaming, and human review patterns.
- Developed educational systems that combine curriculum design, UX strategy, frontend engineering, automated grading, learning analytics, and accessibility-forward design.
- Designed and delivered user experiences for web, mobile, educational, creative, AI-assisted, and data-centered products.
- Translated ambiguous business, educational, and product needs into clear requirements, interface structures, workflows, and working systems.
- Combined technical implementation with strong communication, client support, stakeholder translation, and practical decision-making across multiple industries.

SELECTED PORTFOLIO

Lumi Forge

<https://lumiforge.io>

AI-powered interactive content platform featuring Creator Studio, structured content modeling, gamified explorations, real-time AI generation, and guided publishing workflows.

Learn With Lumi

<https://learnwithlumi.com>

Full-stack AI-integrated educational platform with adaptive curricula, automated grading, personalized learning pathways, interactive lessons, and neurodiverse accessibility features.

DarkViolet.ai

<https://darkviolet.ai>

Human-centered AI integration platform and product studio focused on AI-powered interactive experiences, brand systems, educational technology, creative tools, and full-stack product development.

The Discovery Space

<https://darkviolet.ai/evanmarie/the-discovery-space>

AI-guided reflective discovery platform that helps individuals, teams, and organizations explore strengths, patterns, growth edges, communication, leadership, learning, role fit, and team dynamics through guided prompts and selectable methodology lenses. Designed as a developmental conversation tool and one meaningful input among many, not as a clinical assessment or standalone hiring decision system.

Illustrator Studio

<https://darkviolet.ai/evanmarie/illustration-studio>

AI image-generation tool built into Lumi Forge with a layered prompt-architecture system (curated visual style, composition mode, and plain-language subject), multi-model provider integration, typography-aware input for accurate rendered text, and reCAPTCHA-protected generation.

Space Weather

<https://spaceweather.darkviolet.ai>

Comprehensive solar data application with real-time data visualization and interactive dashboard patterns.

CounterAerial

<https://counteraerial.com>

Drone detection and tracking platform developing passive counter-UAS (C-UAS) systems, translating complex sensor data into clear, actionable monitoring interfaces.

Dreams & Divinations

iOS App Store Cross-platform mobile app built with React Native and Expo, integrating AI-powered interpretive experiences.

SELECTED COURSE & CONTENT ARCHITECTURE

Math Unlocked: An Interactive Journey

Interactive mathematics resource spanning algebra, linear reasoning, data, statistics, probability, functions, advanced algebra, geometry, trigonometry, vectors, matrices, logarithms, and conic sections.

Know Your Rights: A U.S. Constitution Deep Dive

Structured civic education experience focused on constitutional mechanics, original text, government powers, checks and balances, and the Bill of Rights.

Radical Clarity: The Art of Thinking Critically

Critical thinking curriculum exploring cognitive bias, gaslighting, manipulation, emotional data, intellectual humility, and resilient reasoning.

How Business Actually Works

Business foundations course covering economics, ownership structures, entrepreneurship, operations, management, marketing, finance, accounting, and organizational decision-making.

The Mechanics of Advantage

Strategic thinking curriculum translating principles from Sun Tzu into modern frameworks for business, relationships, self-development, decision-making, and accurate perception.

The Mechanics of the Cosmos

Advanced astronomy and physics learning experience connecting light, radiation, gravity, stellar mechanics, quantum behavior, relativity, galaxies, black holes, and cosmology.

ACT-SAT Math Prep & Mastery

160-lesson teacher-guided course for ACT and SAT mathematics preparation, including foundational review, advanced algebra, geometry, trigonometry, practice testing, mistake analysis, and targeted remediation.

EDUCATION

Master of Music, Georgia State University Bachelor of Music, Vanderbilt University Post-Graduate Study, 3 Certificates, Universität Mozarteum Sommerakademie CS50 Introduction to Artificial Intelligence with Python, Harvard University Data Analysis, Zero to Pandas, Jovian

LANGUAGES

Intermediate/basic German | Basic French | Basic Italian | Beginner Russian | Beginner Mandarin

PROFESSIONAL PROFILE

I build systems that help people understand, create, learn, and grow. My work has moved across opera, education, software development, AI, curriculum architecture, product design, data visualization, and business improvement, but the deeper pattern has stayed steady. I look for friction, confusion, wasted motion, and untapped potential, then I design something clearer and more useful.

At DarkViolet.ai and Lumi Forge, that means building AI-powered platforms that turn passive content into active exploration. In education, it means creating learning systems that adapt to the student instead of flattening the student into the system. In frontend engineering, it means building interfaces that are technically strong, intuitive, humane, and visually alive.

I am at my best where complexity needs a translator, where tools need a soul, and where ambitious ideas need someone who can move from concept to architecture to working product.