Joseph Caughey

CTO • Full-Stack Architect • Blockchain & AI Systems Builder • Creative Technologist
CANADA | Victoria BC & Toronto, ON | **Open to remote, hybrid, travel, and relocation opportunities**
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Executive Summary

Senior full-stack technologist and founder with 20+ years of experience building scalable web platforms, blockchain-based financial products, and creative media systems. Proven track record leading end-to-end product development—from architecture and security to UX, data pipelines, and monetization. Background spans fintech, crypto, AI-assisted systems, music/media platforms, and SaaS. Known for shipping complex systems under constraints, modernizing legacy stacks, and bridging technical execution with business strategy.

Core Skills

- **Languages & Frameworks:** JavaScript / TypeScript, Node.js, ReactJS, React Native, Vue.js / Nuxt, Ruby on Rails, Wordpress/PHP, HTML5, SCSS/CSS3, Scrollmagic Animations
- **Frontend & UX:** UX/UI design, responsive design, component-driven architecture
- **Backend & Data:** PostgreSQL, Redis, ElasticSearch, REST & GraphQL APIs
- **Cloud & Infrastructure:** AWS (EC2, S3, IAM), AWS Lambda & serverless functions, GCP / Firebase (Auth, Firestore, Hosting, Functions), Cloudflare (DNS, CDN, security, edge workers), Heroku-based deployments, CI/CD pipelines, environment management, serverless and edge architectures designed for scalability, security, and cost efficiency
- **Blockchain & Crypto:** Bitcoin, Ethereum, Solidity smart contracts, Hardhat development workflows, Ethereum Virtual Machine (EVM), wallet integration (custodial & non-custodial), Web3.js / Ethers.js, on-chain/off-chain architectures, provably-fair systems, token standards (ERC-20, ERC-721), tokenomics, DeFi primitives, and blockchain security considerations
- **AI & Automation:** Large Language Model (LLM) integrations (OpenAI-compatible APIs), prompt engineering for structured outputs, function/tool calling, decision-oriented workflows, AI-assisted product features, automation pipelines, data extraction & transformation, cost-aware inference patterns, and human-in-the-loop systems

- **Legal, Compliance & Risk:** WCAG 2.1 / AODA accessibility compliance, payments and financial data handling, PCI-aligned payment integrations, data privacy and protection principles (PII handling, encryption in transit and at rest), secure authentication and authorization flows, auditability, and risk-aware system design
- **Architecture & Integrations:** Scalable SaaS, external API integrations, event-driven systems, security-first design
- **Product & Leadership:** CTO leadership, roadmap planning, Agile/SCRUM, vendor & stakeholder management

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Current & Recent Focus (Blockchain, AI & Platforms)

Blockchain & Crypto Ventures

Stable Media | *Founder / Architect*

- Designing an ad-backed blockchain media and financial ecosystem built around tokenized value and yield concepts.
- Architecting secure wallet flows, smart-contract interactions, and scalable backend infrastructure.
- Leading product vision, technical roadmap, and long-term monetization strategy.

Album Boutique | *Founder / Technical Lead*

- Blockchain-enabled digital marketplace for music releases and collectible media.
- Built end-to-end platform integrating payments, asset delivery, and creator monetization.
- Focus on artist-first economics, ownership transparency, and modern UX.

Common Mine | *Co-Founder / Technical Lead (Exited)*

- Co-founded and led the technical architecture of a Bitcoin mining and financial operation.
- Scaled the platform and operation to approximately **$1.6M CAD in BTC value** prior to exit.
- Responsible for infrastructure design, operational tooling, and technical execution through growth and exit.

Creative & AI Platforms

Trickfilm Entertainment | *Founder / CTO*

- Building a digital animation and creative platform combining AI-assisted creation tools with distribution and monetization.
- Integrating AI video generation, asset management, and creator workflows.

- Developing a long-term roadmap including marketplace features, festivals, and partner integrations.

Selected Professional Experience (Condensed)

CTO / Senior Full-Stack Developer — Various Companies

2005 – 2022

- Led development of large-scale web platforms across fintech, media, e-commerce, and SaaS.
- Delivered solutions for **government organizations, regulated financial institutions, national media companies, enterprise clients, and venture-backed startups**, often through agency and consultancy engagements.
- Modernized legacy systems into cloud-native, scalable architectures using JavaScript, Node.js, Vue/Nuxt, React, Firebase, and AWS.
- Delivered secure payment flows, high-traffic APIs, and data-driven dashboards supporting mission-critical operations.
- Served in senior and CTO-level capacities, collaborating directly with founders, executives, and non-technical stakeholders.
- Mentored developers, led Agile teams, and owned delivery from architecture through production.

(Earlier roles consolidated to highlight leadership, architecture, and delivery impact rather than individual short-term positions.)

Education

University of Victoria

Applied Artificial Intelligence | *Nov 2025 – Mar 2026*

- Currently completing applied AI coursework covering machine learning fundamentals, neural networks, data analysis, model development, and practical AI implementation.

Dapp University

Blockchain & Smart Contract Development (Project-Based Training) | *2022*

- Comprehensive hands-on training in Solidity smart contracts, Ethereum/EVM development, token standards (ERC-20 / ERC-721), DeFi architecture, NFT systems, Hardhat workflows, and full-stack DApp development using JavaScript and Web3 frameworks.

Tomorrow's Filmmakers — Complete Filmmaking Program

Cinematography & Film / Video Production | *2022*

- Intensive program covering directing, cinematography, screenwriting, lighting, editing, audio, and production fundamentals.

Khan Academy

Economics | *2011 – 2012*

- Built a foundational understanding of economic systems, markets, fiscal policy, and resource allocation, applied in business, risk analysis, and strategic decision-making contexts.

Applied Computer Programming (Self-Guided)

Computer Programming / Application Architecture | *1999 – Present*

- Long-term self-directed study focused on JavaScript, Node.js, Vue/Nuxt, React, DevOps, cloud infrastructure, and scalable application architecture.*

Additional Experience

- Founder & operator of multiple creative and media ventures (music labels, film projects, digital platforms).
- Extensive experience in branding, UX/UI, audio/video production, and content distribution.
- Canadian citizen with experience operating across Canada and the United States.

Notes

This CV intentionally emphasizes **current relevance** (blockchain, AI, platforms) while summarizing earlier experience to avoid over-indexing on legacy roles. A separate **Founder / CTO Bio** or **Project-Based CV** can be produced for investor, startup, or consulting contexts.