

Jean-Philippe Melanson

FRACTIONAL CTO · SENIOR SOFTWARE ENGINEER

Part-time · remote from Québec · travel when it matters

CONTACT

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SKILLS

SHIP

TypeScript · React · Next.js · React Native · Postgres · Supabase · AWS · CI/CD · IaC

LEAD

System design · architecture reviews · roadmap · mentoring · working directly with CEOs and product

SINCE 2024

AI-assisted development — coding agents, MCP, automated review — and hardening AI-generated code for production

LANGUAGES

French (native) English

PERSONAL PROJECTS

CrownBTC Bitcoin price and portfolio app for iPhone.

macro-tui Macro markets dashboard in the terminal, in Rust.

nhl-tui Live NHL scores in the terminal, in Rust.

IN SHORT

The engineer companies hand the critical path to: technical co-founder of a real-estate platform, protocol engineer on a token launch, consultant inside Ticketmaster's live-event systems. I work autonomously, ship on the date I gave you, and tell you the truth about scope, risk and cost, early. Since 2024 I ship with AI coding agents and set teams up to do the same.

SELECTED OUTCOMES

- **doormath.ca** — **built the company's technical foundation as technical co-founder.** Architecture, product and infrastructure from zero to MVP; onboarded the first 10–20 paying customers.
- **Sapient** — **shipped the Proof of Quality protocol from design to token launch (Aug 2025).** Incentives, quality control and rewards, in a team of eight senior engineers, on a platform past 1M contributors and 100M tasks.
- **Ticketmaster** — **owned the worst incident on the NFL admission platform.** Live database corruption was showing wrong entry status at games; found the bug, reconciled production data, shipped the fix.
- **CRIUCPQ** — **led a research hospital's scientific app from two native apps to one React Native codebase and the web.** Roughly halved the yearly maintenance effort: one language, one release train, both stores plus web.
- **FastAF** — **carried the backend and delivery of core commerce and crypto-payment features.** Thousands of transactions a day; DevOps and QA automation that cut support tickets ~40% and tripled deploy frequency.

EXPERIENCE

Senior Software Engineer

[Sapient.io](https://sapient.io) · Remote

2024-09 – present

- Designed and shipped the Proof of Quality protocol — incentives and quality control for AI training-data labelling — through the August 2025 token launch.
- Built token distribution and goal-based rewards on the protocol, powering airdrops and paying for high-quality work.
- Set up AI-agent-driven development for the team — code-quality automations, reporting, a product-first backlog — and mentored engineers on the practice.

Technical Co-founder

doormath.ca · Remote

2023-04 – 2024-09

- Owned the technical foundation of a real-estate platform — instant home valuations and market analytics — in Next.js, TypeScript and Supabase/Postgres.
- Set product vision and roadmap with the CEO; coordinated UX designers and ML engineers.
- Delivered 15+ core features and the production infrastructure behind them: 99.9% uptime, sub-2 s loads, first paying customers.

Software Engineer — Contract

[CRIUCPQ \(research hospital\)](https://criucpq.com) · Remote · Québec City

2021-09 – present

- Lead developer of a scientific respiratory-therapy app used by clinicians, educators and students; own it end to end.
- Consolidated two native iOS/Android apps into one React Native codebase and rebuilt the recommendations algorithm to current medical guidelines.
- Took the tool to the web (ventilo.ca) on automated cloud infrastructure; run app-store operations and compliance for both apps.

Software Engineer

[FastAF Technologies](#) · Remote

2020-05 – 2023-01

- Carried core commerce features — cart, checkout, loyalty, inventory, recommendations — in Rails and React Native at thousands of transactions a day.
- Built the crypto payment stack: token payments, wallet connectivity, fiat on/off-ramps.
- Established DevOps and QA automation that cut support tickets 40% and tripled deploy frequency; technical advisor to product and executive leadership.

Software Engineer — Consultant

[Ticketmaster](#) · Québec City, QC

2018-04 – 2020-05

- Built and operated the NFL admission platform (Entry and Redeem) as Java and Go microservices on AWS, highly available and fault tolerant.
- Owned the platform's worst incident: found a live data-corruption bug, reconciled production data, shipped the fix.
- Designed disaster recovery (RPO under 1 hour, RTO under 4 hours) and cloud governance standards adopted across engineering teams.

Software Engineer — Consultant

[Asurion](#) · Remote

2017-10 – 2018-03

- Built responsive React interfaces that streamlined customer workflows.
- Introduced unit, integration and end-to-end testing; production bugs down 50%.

Software Engineer — Consultant

[Ticketmaster](#) · Québec City, QC

2016-10 – 2017-10

- Built React interfaces for event-code redemption used across millions of ticket transactions.
- Drove frontend state patterns and Java microservice architecture decisions.

Software Engineer

[Balihoo](#) · Boise, ID

2014-07 – 2016-05

- Engineered an AWS campaign-automation system orchestrating multi-channel marketing for thousands of locations; manual effort down 80%.
- Built the marketing dashboard and the pipelines behind it, millions of data points a day.

Software Engineer

[Ticketmaster](#) · Québec City, QC

2011-06 – 2014-06

- Platform team: low-level libraries for ticket on-sales that held under peak demand.
- Set up monitoring, centralised logging and automated releases; incident response 70% faster.
- Built a Docker-based local environment that took onboarding from weeks to days.

Software Engineer

[Université Laval](#) · Québec City, QC

2008-05 – 2011-05

- Full-stack development on an e-learning platform serving thousands of students; built the quiz module from scratch.

EDUCATION

Bachelor of Engineering (B.Eng.) — Information Technology

[École de technologie supérieure](#)

2004-09 – 2008-09

- Laboratory assistant: e-commerce & transactional application development
- NSERC Research Award: image-based search with Oracle DB