

Curtis *Blanchette*

Lead Software Engineer at Metalab. AI-native delivery, secure AI enablement, and the engineer workflows that turn judgment into the priced layer.

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■ 01 SUMMARY

A decade engineering software from startup MVP to enterprise platform. Leads AI-native delivery at Metalab — recommendation, longevity risk, workflow orchestration — and the internal tooling (MCP servers, skill systems, coding harnesses) that encodes engineering judgment for the wider team. Treats judgment as the priced layer; everything else compounds.

02 EXPERIENCE

2024 – present

Remote · CA

Lead Software Engineer

METALAB

- Leads AI-native engagements across recommendation, longevity risk, and enterprise workflow orchestration — scoping, architecture, and delivery for clients with senior internal teams.
- Builds the internal AI substrate: MCP servers, agent-coding harnesses, skill registries — tooling that captures how senior engineers ship and makes it available to the rest of the practice.
- Publishes on how agencies should adapt as execution gets cheap — judgment, not velocity, as the priced layer.

2021 – 2024

Wilmington, NC ·
remote

Full-Stack Software Engineer

4IIZ SOFTWARE

- Owned architecture and delivery of the flagship legal-tech platform on Angular, Node, Postgres, and AWS.
- Translated business intent into scoped, estimated, documented engineering plans legible to both technical and non-technical stakeholders.
- Ran cross-functional remote teams — engineers, QA, support — through continuous delivery.

2019 – 2021

Wilmington, NC ·
remote

Senior Software Engineer

4IIZ SOFTWARE

- Authored the SQL surface area for marketing, client-lifecycle, budget, and compliance reporting.
- Integrated VoIP into customer-facing web applications powering large North-American call centres.
- Hardened the design → engineering → QA loop into a continuous-delivery cadence.

2017 – 2019

Kelowna, BC

Lead Software Engineer

QHR TECHNOLOGIES

- Bridged Shoppers Drug Mart and QHR's healthcare platforms — Angular, Java Spring Boot, MSSQL — under enterprise compliance constraints.
- Owned hiring and scaled cross-functional remote teams across Canada.
- Coached individual contributors on technical growth and career arc.

2015 – 2017

Kelowna, BC

Lead / Frontend Software Engineer

JBF SPORTS

- Shipped Ionic / Cordova hybrid-mobile apps for NHL and NFL franchises to the App Store and Google Play.
- Engineered white-labelled real-time chat for kids' sports communities on WebSockets.
- Designed and shipped onboarding plus a proprietary campaign builder for sports marketers.

03 STACK & TOOLS

LANGUAGES

TypeScript	everywhere
Python	AI · data · control
Rust	latency-critical
Java	enterprise stints
SQL	fluent · Postgres
Bash	too much, probably

PLATFORMS & INFRA

Postgres	the one true DB
Redis	queues · caches
AWS	ECS · CDK · S3
GCP	Vertex RAG
Terraform	IaC
Vercel	edge + RSC

AI / ML

MCP	model context protocol
Anthropic	Claude code + API
Ollama	local LLMs
Vertex RAG	vector retrieval
Pi.dev	coding harness

IOT & CONTROL

ESP32	MicroPython
MQTT	telemetry spine
OSQP	convex QP
EKF	state estimation
MPC	model predictive control
FastAPI	control surface

FRONTEND

React 19	RSC + suspense
Next.js 15	app router
Tamagui	RN + web
Tailwind	v4 CSS-first
Angular	legacy carried
MDX	long-form

HOW I WORK

Trunk-based	small, frequent
Design docs	before code
RFCs	for the big stuff
Review SLA	same day
Senior-heavy	from day one
On-call	fair rotations

04 SELECTED SIGNALS

- 10+ years engineering software at startup → enterprise scale.
- ▶ Open-source maintainer — Mycelium, graphify-rs, pi-extensions.
- ♪ Releasing musician — original music on iTunes & Google Play.
- ≈ Competitive wakeboarder — Men's Cable Park (2019).
- ▲ Tony Robbins UPW alumnus (2020).
- Winner — Startup Weekend Okanagan (2014).
- 🎓 Diploma — Graphic Design / Web Development (2014).