

Michael Ignat

Senior Software Engineer

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SUMMARY

Full-stack engineer who works both ends at Ailo: the React Native apps with 600,000 users and the payment engines underneath them. Built the coding-agent platform the whole org now routes small issues through. 7 years in TypeScript, React / React Native, Node.js, Java, PostgreSQL and AWS, with a strong design engineering focus.

EXPERIENCE

Ailo | Senior Software Engineer

Sep 2025 - Present

- Architecting & maintaining services with 30 million requests a day (processing \$100 million/day): bills, ledger, statements and payments, plus the two consumer React Native apps on top of them.
- Designed and built an agentic automation service as sole builder. Slack Q&A over the codebase with cited answers; Linear issues trigger coding runs in a remote sandbox that open pull requests. Now the default route for small issues: 250+ agent PRs across 23 repos, 80% merged without human rewrite.
- A legislative change gave Ailo two months to launch a new paid consumer product or lose an existing revenue line. Built it end to end, Figma through React Native to multiple backend services, shipped 2 weeks before the law took effect. 90% conversion on a new pricing model that increased revenue.
- Planned and ran a major ORM migration (600 files, 50k lines) from Objection/Knex to Drizzle ORM in one week. Agents did the mechanical rewrite, I orchestrated and reviewed with minimal intervention. Grafana error rate was flat through cutover; worst-case latency down 25%, large list queries about 3x faster.
- Postgres performance on 1 billion row tables. A ledger query behind 36% of production DB time went from 402ms to 51ms at 183k calls a day, EOFY tax summaries from 30 hours to 6 hours. Freed 18% RDS CPU and deferred a planned instance upsize.
- Co-built the Claude Code + Codex plugin installed by engineering (~30 skills). Shipped dynamic AI PR review with parallel reviewers that follow repo patterns over read-only MCP servers. 65% of findings fixed before merge.

GLX Digital | Senior Software Engineer

Jan 2025 - Sep 2025

- Built LLM features for a maritime operations platform in React, TypeScript and AWS Bedrock: form autofill, entity-aware filtering, and cost-saving suggestions (vessel speed vs fuel burn, port wait times). Live with 14 operator customers.
- Stood up an offshore team of 5 with the engineering manager: interviews, onboarding, first three months of code review. Set up Braintrust evals as the gate on every prompt and model change; 32 evals gated 4 model swaps; no model regressions reached users.
- Re-architected notifications from a monolith into async BullMQ workers with retries. API response times down 30%+ on 40k notifications a day.

Bankwest | Software Engineer

Feb 2023 - Jan 2025

- Set technical direction for micro-frontend adoption (Angular, TypeScript) across 4 teams on broker-facing products; wrote the ADR and ran the design review. Teams could deploy independently and merge conflicts dropped 60%.
- Cut broker-portal initial load 40% with lazy loading and code splitting. Lighthouse 95+ on flows used by thousands of brokers a day.
- Java / Spring Boot microservices behind the portal. 99.9% uptime, 1M+ users.
- Rebuilt the shared UI library (Tailwind, Storybook) used by 20+ engineers, and mentored 6 rotating graduates to unsupervised delivery inside 6 months.

EXTAG | Software Engineer

Jan 2022 - Feb 2023

- Built an offline-first sync layer (Service Workers, IndexedDB) for field technicians working without signal; last-write-wins per field with server-side audit.
- Real-time asset dashboard in React and Mapbox, the screen customers open first. Cut key API response times 80% for 1,000+ daily users.

ContextGG | Software Engineer

Oct 2019 - Jan 2022

- Led an onboarding revamp with product and design that cut churn 25% in 3 months. Built the shared React component library and added Stripe subscriptions to the Node/GraphQL API, the first paid tier, 1,200 subscribers at peak.

PROJECTS

[Catena](#)

- Cycling training app: Expo / React Native client and an Effect v4 API on Cloudflare Workers. Turns Garmin and Wahoo ride history into weekly plans and pushes workouts back to the device. 60 active riders, 900 plans generated, 14 architecture decision records.
- 10-agent LLM planning pipeline over OpenRouter with Effect Schema structured outputs and bounded repair loops. Braintrust harness runs 4-week chained plans against fixtures with 9 LLM judges sharing validator code with production. Write-up at michaelignat.com.au; queue plus DLQ pattern published as an open-source Effect package.

[No Ops](#)

- Platform-engineering tool for deploying AWS resources with less setup: React frontend with live WebSocket updates, Go backend with event sourcing and CQRS, GraphQL API, Go CLI.

SKILLS

Core: TypeScript, React, React Native (Expo), Next.js, Node.js, Effect, Java (Spring Boot), Go, Angular, PostgreSQL, Drizzle ORM, GraphQL, REST, Kafka, BullMQ, Stripe, Jest, Playwright

Infra: AWS (Lambda, SNS/SQS, Bedrock), Cloudflare Workers, Docker, GitHub Actions CI/CD, Datadog, Sentry

Agent workflow: Claude Code and Codex with skills, hooks and MCP servers; Braintrust evals and LLM judges as merge gates; Daytona sandboxes for unattended runs

EDUCATION

Bachelor of Computer Science | Edith Cowan University

2019 - 2022