Michael Ignat **Senior Software Engineer**

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Results-driven Senior Software Engineer with 7 years of experience crafting scalable, high-performance interfaces. Proven track record of owning end-to-end systems, driving UX innovation and leading teams in fast-paced startup environments. Adept at solving complex challenges with modern tooling, mentoring talent, and delivering measurable business impact - passionate about building products users love.

- **Frontend:** React, React Native (Expo), Next.js, Zustand, Angular, Tailwind, Sass, Vite, Jest, Playwright, Cypress, Storybook
- **Backend:** Node.js (Express, Bun), NestJS, Java (Spring Boot), Kotlin, Go, GraphQL, PostgreSQL, MySQL, Kafka, BullMQ, SNS/SQS

Ailo (*Sep 2025 – Present)* **Senior Software Engineer**

- Internal agentic service with remote sandboxes that use Slack and Linear integrations to perform coding work on (or answer questions about) any company repository. Automatically fed into alerting systems which raise pull requests using a custom MCP server. Prevents hundreds of hours of engineering context switching and allows non-technical members to have questions answered reliably without consulting an engineer.
- Built the shared agent foundation used across engineering (30+), including repository-aware coding patterns, reusable agent skills, execution hooks and quality guardrails that enforced company architecture, testing expectations, and coding standards. Improved reliability of AI-generated changes while reducing engineer review effort and corrective iterations.
- Agent evaluation and observability pipelines using Braintrust, establishing automated regression testing, benchmark datasets, experiment tracking, and quality scoring to detect output regressions and validate prompt, model, and workflow changes before deployment. Increased output reliability and prevented quality regressions from reaching users.
- Fully autonomous agent-led ORM migration (Drizzle ORM) across a 50,000 LoC production service in one week with zero production regressions. Improved worst-case request latency by 25% (200% for large list queries) while replacing the legacy ORM with a strongly typed implementation that reduced AI context requirements and accelerated future engineering work.
- Reduced EOFY statement generation from 30 hours to 4 hours by diagnosing and resolving PostgreSQL execution bottlenecks on 500M+ row tables using pganalyze, query plan analysis, and targeted query optimizations, overcoming cold I/O bottlenecks despite appropriate indexing.

GLX Digital (*Jan 2025 – Sep 2025)* **Senior Software Engineer**

- Architected AI-powered frontend features with React, TypeScript and AWS Bedrock, enabling intelligent form autofill, entity contextual awareness, dynamic filtering on system entities and providing deep insights into customer data dispensing real-time cost-saving suggestions such as adjusted vessel speeds to reduce fuel costs, arrival ETAs and estimated port wait times.
- Transformed monolithic notification service into a modular, asynchronous system using BullMQ, enabling fire-and-forget delivery and retriable messages, cutting query response times by at least 30% and enhancing code readability by distributing logic across entity-specific services. Integrated Datadog for robust logging and tracing, simplifying issue resolutions.
- Optimised rendering of thousands of live vessel positions and voyage paths by minimising React reconciliation, batching state updates, memoizing derived data, and rendering only viewport-visible overlays, maintaining smooth performance under continuous real-time updates.

Bankwest (*Feb 2023 - Jan 2025)* **Software Engineer**

- Led the adoption of a micro-frontend architecture using Angular and TypeScript across 4 teams, enabling independent deployments for broker-facing products and reducing merge conflicts by 60%. This accelerated release cycles in a high-stakes banking environment.

- Designed resilient Java microservices with retry policies, idempotent processing, and comprehensive monitoring, supporting broker-facing banking services used by over 1 million customers.
- Revamped major UI component library with Tailwind CSS and Storybook, enforcing bank-grade design consistency and slashing frontend delivery time for a team of 20+ engineers working on broker tools.
- Mentored multiple graduate developers on rotation, accelerating their ramp-up and doubling feature output within 6 months.

EXTAG (Jan 2022 - Feb 2023) **Software Engineer**

- Custom offline-first sync mechanism for the system using Service Workers and IndexedDB, enabling seamless functionality in low-connectivity environments and boosting user retention for field technicians.
- Real-time asset dashboard with React and Mapbox, optimising rendering and state updates to maintain responsive interaction while visualising thousands of live assets simultaneously.
- Mentored 2 junior engineers to promotion, increasing team output through pair programming and best-practice training.

ContextGG (Oct 2019 - Jan 2022) **Software Engineer**

- Engineered React features with Redux, improving code modularity and reducing render times while collaborating closely with senior developers to adopt best practices, such as memoization, virtualisation and debouncing.
- Enhanced payment systems with Node, GraphQL, and Stripe ensuring secure, scalable transactions.

Bachelor of Computer Science
Edith Cowan University, 2019 – 2022

Projects

catena React Native (Expo), Cloudflare Workers, AI SDK, Braintrust

- Personal AI coaching assistant that uses the closed-source Garmin API to iteratively improve a user's training program based on fitness metrics.

No_Ops React, Go, GraphQL, Docker, AWS

- Collaborated closely with the AWS startup program to assist in innovating new patterns & practices for Platform Engineering by building a DevOps abstraction tool which enabled teams to deploy cloud resources with less manual setup and better consistency.