

David Walesby

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Professional Summary

Senior Software Engineer with 6+ years of experience designing and scaling cloud-native, distributed systems in high-traffic production environments. Proven technical ownership across greenfield and legacy platforms handling **10M–400M+ daily requests**, with deep experience in **event-driven architectures, infrastructure-as-code, and cloud cost optimization**. Strong track record of driving architectural decisions, improving system reliability, and mentoring peers while being hands-on across the stack.

Core Skills

- **Systems Architecture:** Distributed Systems, Event-Driven Architecture, Microservices, Scalability, Observability
- **Backend:** C#, .NET, PHP, Laravel, Kotlin, Node.js, TypeScript, Javascript, Python
- **Cloud & Infrastructure:** GCP, AWS, Terraform, Docker, CI/CD, Spotify Backstage
- **Frontend:** Vue, Nuxt, React, Tailwind
- **Databases & Caching:** SQL Server, PostgreSQL, MySQL, DynamoDB, Firestore, Redis

Professional Experience

Encremoi - *Founder & Lead Software Engineer (Canada, Remote), April 2024 - December 2025*

- Architected and delivered a full-stack SaaS marketplace from ideation to production-ready MVP, managing the complete product roadmap and technical strategy
- Leveraged Terraform to build a GCP environment featuring automated CI/CD pipelines and ephemeral environment teardowns, optimizing cloud spend from day one
- Implemented Stripe based billing and subscription workflows, including webhooks and lifecycle management
- Integrated Firebase Auth for secure social logins, Google Maps for location-based trust, and Google Vision AI to automate content moderation workflows
- Conducted user discovery with 10+ prospective users to validate product requirements and workflow assumptions
- Implemented logging, metrics, and alerting for backend services to improve operational visibility and reliability
- **Outcome:** Product reached production-ready MVP but was not commercially launched due to market and funding constraints
- **Tech:** .NET, SQL Server, Vue.js, Nuxt, Tailwind, TypeScript, GCP, Terraform

TripleLift - *Senior Software Engineer (Canada, Remote), July 2022 - February 2024*

Connected Television Team, February 2023 - February 2024

- Designed and implemented AWS Step Function workflows for a greenfield advertising in video generation platform, defining execution flow, failure handling, and operational patterns for high-throughput asynchronous workloads
- Built DynamoDB-based transient data stores supporting 10+ million daily events and reducing overall system errors by 25% under peak load
- Optimized cloud resource provisioning with Terraform and added automated environment shutdowns for developer environments, reducing AWS costs by 15%
- Introduced backend testing and CI/CD standards, increasing code coverage from 30% → 75% improving successful production deployment consistency

- Mentored peers on AWS Step Function workflow patterns and DynamoDB transient data handling through workshops and code reviews
- **Tech:** Kotlin, Node.js, TypeScript, JavaScript, PostgreSQL, React, Tailwind, AWS, Docker, Terraform

Velocity / Platform Team, July 2022 - February 2023

- Migrated legacy API endpoints into microservices supporting **~400M external daily requests**, enabling horizontal scaling and faster feature delivery while supporting company-wide modernization efforts
- Implemented GraphQL across multiple services and mentored team members on implementation and usage, enabling consistent integration
- Implemented authentication and authorization patterns for new and existing microservices, closing compliance gaps and improving API security via Auth0 M2M offerings
- Reduced developer friction and cross-team blockers by engineering a centralized documentation hub on Spotify Backstage with generated openapi documentation
- Identified and remediated infrastructure/code inefficiencies, reducing teams cloud spend by 10%
- **Tech:** PHP, Laravel, Java, Spring, Python, Node.js, MySQL, React, Tailwind, AWS, Auth0, Docker, Terraform, Backstage

Grantek - Full Stack Software Developer (Canada, Remote), February 2020 - July 2022

- Designed and implemented billing normalization tools, improving project manager productivity and saving engineers time during client billing
- Built an engineer request system, replacing manual processes, eliminating double-bookings, and reducing project manager workload
- Refactored internal scheduling tool, reducing API response times from 2 minutes → 80ms
- Developed a project win/loss tracking tool with automated finance alerts when thresholds were exceeded
- Proposed and led adoption of a modern frontend framework to revamp services with a focus on UX and the creation of a unified frontend template
- Championed refactoring of critical technical debt, upgrading PHP from 5.1 to 8.0, reducing request latency, closing security issues, and ensuring long-term maintainability
- Dockerized applications and implemented PHPUnit for automated unit testing
- **Tech:** PHP, Laravel, MySQL, Vue.js, Tailwind, Docker, Azure

Ministry of the Solicitor General - Junior Software Developer (Hamilton, Ontario), May 2019 - September 2019

Indigenous Services Canada - Junior Software Developer (Toronto, Ontario), April 2018 - September 2018

Education

Mohawk College - Ontario College Advanced Diploma: Software Development, 2016 - 2019