

# INDERPAL SEKHON

AWS Certified Solutions Architect | DevOps & Cloud Engineer | Full-Stack Engineer  
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## SUMMARY

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AWS Certified Solutions Architect and Software Engineer with 7+ years of experience designing, building, and operating cloud-native applications, distributed systems, and production SaaS platforms. Proven track record delivering end-to-end solutions across AWS, Terraform, Docker, Kubernetes, CI/CD, and modern web and mobile technologies. Built and deployed multiple production systems as both an engineering leader and hands-on developer, including a multi-platform SaaS application serving real-time users. Seeking Cloud Engineer, Solutions Architect, DevOps Engineer, or Platform Engineering roles where strong infrastructure and software development expertise can drive scalable business outcomes.

## TECHNICAL SKILLS

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**AWS:** EC2, S3, Lambda, VPC, RDS, DynamoDB, CloudFormation, IAM, KMS, CloudWatch, API Gateway, Auto Scaling, ELB, ECS Fargate, ECR, SNS, SQS, Secrets Manager

**Infrastructure as Code:** Terraform, AWS CloudFormation, Ansible

**CI/CD & Containers:** GitHub Actions, Docker, Kubernetes, Jenkins, AWS CodePipeline, CodeDeploy, BuildKit

**Monitoring & Logging:** CloudWatch, Prometheus, Grafana, ELK Stack, AWS X-Ray, structured JSON logging

**Languages:** TypeScript, Python, Dart/Flutter, Java/Kotlin, Bash, JavaScript, SQL

**Databases:** PostgreSQL, DynamoDB, Cloud Firestore, MySQL, MongoDB

**Architecture:** Distributed systems, real-time WebSocket streaming, multi-tenant SaaS, role-based security, GPS and location services, transactional data patterns, microservices

## PROFESSIONAL EXPERIENCE

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### Principal Software Engineer

**Fairway Ops Technology** Chestermere, AB | April 2026 – Present

- Built OnCourse as a production Flutter/Firebase application running simultaneously across iOS, Android, and Web, routing real-time beverage orders from golfer to cart driver through a live dispatch system backed by Cloud Firestore with sub-second latency and transactional safety.
- Implemented a 4-tier role security model, transactional order creation with mutex locking on the `active_orders` collection to prevent duplicate orders, and a real-time pipeline that generates image thumbnails on every upload to the cloud.
- Engineered a 2-layer real-time GPS tracking system: one continuous stream for admin visibility across all active drivers, and a second stream scoped to each delivery so customers watch their order move on a live map, keeping both position streams and their permission lifecycles synchronized across multiple courses without stale data or memory leaks.
- Delivered team-scale velocity by integrating Claude Code as an agentic development workflow, accelerating architecture decisions, cross-layer debugging, and code generation across the full stack.
- Orchestrated and deployed GitHub Actions CI/CD pipeline with automated testing gates (unit/integration/rules), multi-repo schema sync, and one-command production deployment.

### Solutions Engineer

**Katcom Systems** Surrey, BC | June 2024 – Present

- Designed and maintained custom ETL pipelines integrating multiple enterprise dealership APIs into Domo, normalizing deeply nested, inconsistent JSON schemas into one unified data model that feeds 20+ executive dashboards across cross-functional teams.
- Built production API integrations utilizing OAuth flows, pagination, rate-limit handling, and edge-case validation, then automating refresh scheduling so pipelines ran reliably with zero manual intervention.
- Maintained 99.5% uptime across all data flows while eliminating duplicate records and resolving conflicting metric definitions that had previously broken cross-team reporting.
- Integrated 15+ PBS API endpoints across accounting, sales, management, and marketing teams, unifying data streams from dealership shop operations, vehicle inventory, website analytics, and CRM follow-up pipelines into purpose-built department dashboards that gave each team a single source of truth for their key metrics.

## Senior Software Engineer

tapNgo Tech Surrey, BC | May 2018 – June 2024

- Architected a multi-tenant SaaS platform processing \$10M+ in automotive inventory monthly on a 3-tier Firestore hierarchy with tenant-scoped security rules, holding 99.5% uptime on a system where reconciliation errors directly impact dealership accounting across Canada.
- Built the Tekion DMS integration with OAuth2 token exchange, paginated inventory cursor walks, and a fallback Excel pipeline that rejected malformed VINs before any record reached the database, then wrote the reconciliation engine that computes set differences between physical scans and DMS snapshots and commits results atomically through Firestore writeBatch.
- Shipped an NFC-based Android counting app used daily by 500+ field technicians with offline-first persistence that survives crashes and connection drops, then led the Java to Kotlin migration that resolved 200+ latent bugs and improved runtime performance by 35%.
- Replaced a manual spreadsheet reporting process with an automated PDF and Excel export pipeline, cutting monthly report preparation by 85% and driving a 40% reduction in user-reported issues through systematic UX and API throughput improvements.

## PROJECTS

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### Real-Time Infrastructure Monitoring Dashboard June 2026

- Deployed a production observability platform to AWS on ECS Fargate behind an Application Load Balancer, with PostgreSQL on RDS in private subnets, container images in ECR, and database credentials in Secrets Manager rather than environment variables, with Terraform provisioning the entire topology in roughly 10 minutes.
- Built a 3-job GitHub Actions pipeline that lints, typechecks, builds both Docker images with BuildKit caching, pushes to ECR tagged by commit SHA, then rolls each ECS service with a stability wait.
- Wrote Kubernetes manifests with StatefulSet for PostgreSQL, resource limits, and separate liveness and readiness probes, plus a cost\_optimized flag that drops the NAT Gateway so a full demo runs for approximately \$0.05 per hour.

TypeScript, Node.js, React, PostgreSQL, Docker, Kubernetes, Terraform, AWS (ECS Fargate, RDS, ALB, ECR, IAM, Secrets Manager, CloudWatch), GitHub Actions

### AI Roster Advisor (Native Mobile + Serverless LLM Backend) May 2026

- Designed requirement-driven native mobile architecture using Capacitor 8 and React 19, solving a cross-origin security boundary that makes live account access physically impossible in a browser.
- Architected a stateless serverless Express proxy on Vercel as a secure LLM gateway with JWT device authentication, and distributed rate limiting via Upstash Redis ensuring per-device quotas hold globally.
- Engineered LLM cost controls using Claude Haiku 4.5 with prompt caching, positioning the full user roster before a cache breakpoint to reduce follow-up token spend to ~10% of baseline.
- Implemented privacy as an architectural invariant: session credentials are stored on-device only, never in-transit or backend, no PII at rest, minimal attack surface.

TypeScript, React 19, Capacitor (Android), Express 5, Node.js, Claude API, Upstash Redis, JWT, Zod, Vercel

### Real-Time AI Translation Web App April 2026

- Built and deployed a full-stack translation app on Hugging Face's neural machine translation API, with a React frontend handling async requests, error states, and loading UX, shipped through Git-based continuous deployment with zero server maintenance.

React, JavaScript (ES6+), REST APIs, Git, CI/CD

## EDUCATION & CERTIFICATIONS

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**AWS Certified Solutions Architect, Associate (SAA-C03)** Amazon Web Services, 2026

**Claude MCP Advanced Certification** Anthropic, 2026

**Hatz AI Champion Certification** Hatz AI, 2026

**Domo AI Certification** Domo, Inc., 2024

**B.Sc. Computer Science** Simon Fraser University, 2018