

Mitchell Brown

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Senior Software Engineer | AWS, Serverless Architecture & Distributed Systems

Serverless backend engineer specializing in AWS, event-driven architectures, scalability, and reliability.

SKILLS

Languages: Java, TypeScript, Kotlin

Cloud & AWS: Lambda, API Gateway, DynamoDB, S3, SQS, SNS, CloudFront, EventBridge, CloudWatch, IAM, CloudFormation, AWS Batch

AI & LLMs: Prompt Engineering, LLM Integration, Structured Outputs, AI-Assisted Development (Cursor)

Architecture: Serverless architecture, REST APIs, distributed systems, asynchronous processing, performance optimization, scalability, resiliency, observability

Frontend: Vue

Tools: Git, Bitbucket, Jenkins, OpenTelemetry, New Relic, Sumo Logic, CI/CD

PROFESSIONAL EXPERIENCE

Genesys

Calgary, AB (Remote)

Senior Software Developer - Backend & Cloud Services

Feb 2026 - Present

- Led architecture and technical design for AWS Lambda-based forecasting services supporting enterprise workforce management customers, balancing scalability, cost efficiency, and operational reliability across critical forecasting workloads.
- Helped lead migration of forecasting services from Clojure/EC2 to Java Lambda, enabling support for workloads of 1,000+ planning groups while improving scalability, operational simplicity, and cloud resource efficiency.
- Reduced production troubleshooting time by implementing OpenTelemetry instrumentation, New Relic dashboards, Sumo Logic alerting, and documented response playbooks for critical forecasting services.
- Improved maintainability and service quality by driving code review standards, testing expectations, architectural guidelines, and technical documentation across Java Lambda services.
- Designed and delivered an AWS Batch-based diagnostics platform now used for internal forecasting troubleshooting, presenting the solution to engineering leadership and product stakeholders while establishing a foundation for future customer self-service diagnostics.
- Mentored engineers across backend, frontend, QA, and cloud infrastructure disciplines while providing architectural guidance, accelerating onboarding, and improving cross-functional delivery effectiveness.
- Served as technical lead for multiple initiatives, owning architecture and solution design, breaking down workstreams, guiding implementation across engineers, and driving alignment with product and frontend stakeholders.
- Accelerated design and implementation of backend services through AI-assisted architecture exploration, code generation, debugging, and documentation workflows.

Software Developer - Backend & Cloud Services

Feb 2023 - Feb 2026

- Created reusable Java and Node.js Lambda frameworks that reduced implementation overhead, standardized service architecture, and accelerated development across engineering teams.
- Improved service reliability and incident response through enhanced error handling, DLQ diagnostics, MDC-based structured logging, CloudWatch alerting, and production troubleshooting tooling.

- Solved large-scale processing and memory bottlenecks through limit and scale testing, consistently designing and validating services at or above target thresholds for time and memory-constrained Lambda workloads.
- Led Java 17 and AWS SDK v2 migrations using phased production rollouts, minimizing deployment risk while modernizing critical services.

Software Developer in Test

March 2022 - Feb 2023

- Developed and maintained automated frontend and API testing frameworks, improving release quality and reducing regression risk.
- Built an internal automation tool that reduced report generation workflows from minutes to seconds, improving efficiency for multiple teams.

Founding Engineer

Calgary, AB (Remote)

PlanePicks Inc.

Sept 2025 – Present

- Shipped AI-assisted aircraft listing generation, market research, and document workflows to production by integrating xAI (Grok) into asynchronous Lambda pipelines with structured output validation, prompt engineering, and automated quality controls.
- Took a serverless aircraft marketplace from concept to production by architecting and provisioning a full AWS platform using Lambda, DynamoDB, API Gateway, SQS, S3, CloudFront, and CloudFormation.
- Designed event-driven processing pipelines for image optimization, document generation, AI inference, and notifications using SQS-backed asynchronous workflows.
- Secured multi-role access for buyers, brokers, and administrators through JWT refresh rotation, Google OAuth, server-side token revocation, and API rate limiting.
- Delivered a complete buyer-to-close marketplace experience using Vue 3 and TypeScript, including search, map-based discovery, messaging, media uploads, offers, and PDF purchase agreements.
- Enabled white-label brokerage operations through multi-tenant architecture, branded portals, team management, client tracking, deal pipelines, and CMS-style content management.
- Established CI/CD pipelines with automated testing, linting, infrastructure deployment, and frontend releases to reduce deployment risk and operational overhead.

Junior Software Developer in Test

Calgary, AB

Absorb Software

May 2021 – March 2022

- Built and maintained Cypress-based end-to-end and API automation for a multi-product SaaS platform, developing foundational experience in software engineering, testing, and cross-functional collaboration.

CERTIFICATIONS

AWS Certified Developer - Associate

April 2025

EDUCATION

Schulich School of Engineering, University of Calgary

Calgary, AB

Bachelor of Science in Geomatics Engineering

2016 - 2021