

Mitchell Brown

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Senior Software Engineer | Backend, Cloud, AWS

Serverless backend engineer focused on AWS, event-driven systems, scalability, and reliability.

SKILLS

Languages: Java, TypeScript, Kotlin

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

Backend & 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

- Lead backend architecture and technical design for AWS Lambda-based forecasting services supporting enterprise workforce management workloads.
- Played a key role in our service rewrite from Clojure/EC2 to Java Lambda, helping design for memory efficiency, scalability, and support for forecasting workloads of up to 1000 planning groups.
- Improved observability and operational response by implementing OpenTelemetry, New Relic, and Sumo Logic alerting, along with tiered alerting scenarios and documentation for critical forecasting services to speed up production troubleshooting.
- Established stronger engineering standards across Java Lambdas through code review practices, test coverage expectations, and technical documentation.
- Researched and implemented an AWS Batch diagnostics proof of concept to improve forecasting troubleshooting for internal teams and support future customer self-service diagnostics beyond Lambda-based workflows.
- Mentored engineers across backend, frontend, QA, and cloud infrastructure topics, accelerating onboarding and improving team effectiveness.
- Led planning and technical solutioning for new projects in 2026, including designing memory and time-efficient replacements for deprecated S3 Select usage and driving cross-functional data storage discussions with product and frontend stakeholders.

Software Developer - Backend & Cloud Services

Feb 2023 - Feb 2026

- Created reusable base frameworks for Java and Node Lambdas, reducing code duplication, improving consistency, and accelerating development across the engineering team.
- Improved system resilience through stronger error handling, DLQ diagnostics, CloudWatch alerting, MDC-based logging, and production troubleshooting enhancements.
- 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.

- Upgraded services to Java 17 and completed an AWS SDK v2 migration using a phased production rollout to reduce deployment risk.
- Contributed to backend architecture discussions, incident investigations, performance testing, and code reviews across backend and frontend teams.

Software Developer in Test

March 2022 - Feb 2023

- Developed and maintained automated frontend and API test frameworks to improve release quality and reduce regression risk.
- Built an internal automation tool that reduced report generation workflows from minutes to seconds for multiple teams.
- Quickly investigated and resolved complex test and product issues, helping maintain product stability and release timelines.

Sole Developer / Founding Engineer

Calgary, AB (Remote)

PlanePicks Inc.

Sept 2025 – Present

- Designed and built a full-stack aircraft marketplace from scratch as sole developer, taking the product from concept to live production deployment.
- Architected a serverless Node.js backend on AWS using Lambda, API Gateway, DynamoDB, S3, SQS, SNS, SES, and CloudFront.
- Provisioned cloud infrastructure with CloudFormation across development and production environments, including IAM, alerting, and custom domain configuration.
- Implemented secure authentication using JWT and Google OAuth.
- Integrated AI capabilities using xAI (Grok) and AWS Bedrock for automated listing descriptions, market analysis, and flight condition reports.
- Built core marketplace workflows in Vue/TypeScript, including aircraft search, listing creation, media uploads, messaging, offer negotiation, and PDF purchase agreement generation.
- Designed a multi-tenant brokerage platform supporting branded brokerage profiles, broker assignments, client listings, and deal-tracking workflows.
- Set up CI/CD with Bitbucket Pipelines for automated deployments and release workflows.

Junior Software Developer in Test

Calgary, AB

Absorb Software

May 2021 – March 2022

- Built and maintained end-to-end and API automation in Cypress for a multi-product platform using object-oriented design and page-object patterns.
- Improved automation reliability and execution speed by troubleshooting flaky tests and refining framework structure.
- Collaborated across teams to keep automation aligned with ongoing application changes.

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