

RYAN XU

SOFTWARE ENGINEER II | CLOUD, DISTRIBUTED SYSTEMS & PRODUCTION AI

Vancouver, Canada | Open to relocate to the United States

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PROFESSIONAL PROFILE

Software Engineer II with 3+ years of experience building production cloud services, distributed workflows, identity platforms, and generative AI systems. Strong in C#.NET, AWS serverless and event-driven architecture, REST APIs, asynchronous processing, data integration, reliability, deterministic AI testing, observability, and cross-system delivery.

TECHNICAL SKILLS

Cloud & Distributed: AWS Lambda, SQS, EventBridge, S3, DynamoDB, serverless and event-driven architecture, asynchronous workflows, local cloud emulation

Backend & Data: C#, .NET, ASP.NET Core, REST APIs, TypeScript, SQL, MySQL, Entity Framework, shared contracts, database migrations

AI & Reliability: Generative AI APIs, grounded search, provider abstraction, deterministic LLM mocks, evaluation/regression, structured logs, dashboards

Testing & Frontend: xUnit, .NET mocking, Cypress, integration testing, GitLab CI, React, microfrontends

PROFESSIONAL EXPERIENCE

TRULIOO - Vancouver, Canada

Software Engineer II

Feb 2025 - Present

- Built and hardened a production C#.NET backend for internal AI-assisted business-entity and beneficial-ownership discovery, delivering provider-backed APIs, grounded search, persistence, execution metadata, and stable service contracts.
- Designed deterministic API regression coverage for core provider-backed AI workflows, made it a blocking merge gate, and restored 56/56 tests in under two hours after an upstream break.
- Strengthened AI-service security and reliability through service authentication, caller-specific access controls, provider abstraction, validation, health behavior, retries, fallbacks, and explicit error semantics.
- Authored repository guidance and reusable AI-engineering workflows for provider integration, API testing, and scenario alignment; peers later maintained the shared artifacts as service behavior evolved.
- Reduced full CI job runtime by 13% and its two heaviest retry specs by 48% through application-level timeout tuning, validated across 57 executions with zero failures.

Junior Software Engineer

Apr 2023 - Jan 2025

- Built and stabilized a React/TypeScript verification microfrontend for customers, covering configurable inputs, asynchronous status, results, historical reconstruction, provider views, reports, permissions, and privacy behavior.
- Implemented event-driven transaction persistence and searchable projections across AWS Lambda, SQS, EventBridge, S3, DynamoDB, and MySQL; debugged retries, sequencing, duplicate events, eventual consistency, and local cloud emulation.
- Delivered C#.NET identity and screening integrations across provider clients, validation, exact/fuzzy and historical-field matching, normalization, response mapping, error handling, and automated tests.
- Co-delivered an early-result distributed workflow across state, storage, analytics, and UI; documented local setup and debugging paths to improve reproducibility and unblock investigations.

Junior Software Engineer (Co-op)

May 2022 - Dec 2022

- Implemented KYB and business verification features across C#.NET services and React/TypeScript microfrontends, translating product designs and user stories into tested deliverables spanning backend and frontend.
- Contributed to migration, validation, and shared configuration work across business verification workflows.
- Integrated changes with product, QA, and engineers, resolving defects spanning services and microfrontends and strengthening tested delivery.

PUBLIC SERVICES AND PROCUREMENT CANADA - Canada

Web Application Developer (Co-op)

Sep 2021 - Apr 2022

- Developed and maintained government ASP.NET MVC applications in C#, translating client requirements into production features and fixes.
- Maintained Entity Framework and SQL Server data workflows while investigating defects across UI, application, and data layers in .NET services backed by relational databases.
- Supported production websites and contributed to requirements and solution reviews with client and development teams.

EDUCATION

The University of British Columbia - B.Sc., Computer Science

2023