

David Liu

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Skills

Languages: JavaScript, Java, TypeScript, Ruby, Go, Python, C/C++, HTML/CSS, SQL

Frameworks: React, Ruby on Rails, Express.js, Next.js, Jest

Technologies: Node.js, Amazon Web Services, GraphQL, Docker, Datadog, Splunk, Linux, Kafka, Kubernetes

Education

University of Waterloo

Waterloo, ON

BASc, Systems Design Engineering

Sept 2020 - Apr 2025

Relevant Courses: Data Structures and Algorithms, Foundations of AI

Experience

Amazon - Software Development Engineer - Flex Team

Toronto, ON

AWS, Java

Sept 2025 - Present

- Spearheaded the end-to-end design and delivery of the global entry-point marketing website for Amazon Flex, implementing a fully serverless AWS architecture (S3, CloudFront, Lambda@Edge, Route 53, ACM) with comprehensive CloudWatch monitoring; enabled CMS-driven content publishing for marketing teams while maintaining high security, availability, and performance for 1M+ weekly unique visitors.
- Drove cross-functional alignment across Flex marketing, internal DNS and infrastructure teams, and external CMS vendors, translating business requirements into a coordinated technical plan; led dependency management, security certification, and launch readiness efforts to deliver a zero-downtime production rollout.

Amazon - Software Development Engineer - Delivery Experience Team

Vancouver, BC

AWS Cloud Development Kit, CloudWatch, CloudFormation, TypeScript, React

Jun 2023 - Sept 2023

- Architected and launched a scalable monitoring solution with AWS CDK, generating over 3,500 CloudWatch alarms and dashboards to support 50+ teams globally in managing delivery benefits, including Prime Delivery
- Built a React-based monitoring tool leveraging the AWS SDK, enabling efficient querying of CloudWatch and iGraph for metric data reducing alarm rebaselining time by an average of 3 days

Motive - Software Engineer - Safety Team

San Francisco, CA

Go, Terraform, Kafka, AWS, Kubernetes, PostgreSQL

Sept 2023 - Dec 2023

- Constructed the harsh event pipeline consisting of MQTT, IoT rule, Kafka topic, Kafka consumer and SQS, providing the infrastructure for over 10 million safety events to be processed from 1 million vehicles daily

Motive - Software Engineer - Asset Tracking Team

San Francisco, CA

Ruby, Ruby on Rails, Java, Go, PostgreSQL, DataDog

Jan 2023 - Apr 2023

- Owned the refactoring of a backend service used for managing driver vehicle pairings from Java into Ruby on Rails, reducing latency by 98% on 7 million daily queries by eliminating the need for gRPC calls
- Orchestrated the development and production rollout process of the service by writing a technical design document and project road map, implemented Datadog monitoring to improve the service maintainability

UW Blueprint - Project Developer - JUMP Math

Waterloo, ON

TypeScript, React, GraphQL, Node.js, MongoDB

Jan 2023 - Sept 2023

- Collaborating with project developers and designers to build a fully fleshed digital assessment tool for the charitable organization JUMP Math, which has delivered curriculum to over 2 million students worldwide

Zynga - Software Engineer - Words with Friends

San Francisco, CA

Ruby, Ruby on Rails, MySQL, Jenkins, Splunk

Apr 2022 - Aug 2022

- Designed and developed new endpoints and logic within Ruby on Rails for a "mark suspicious user" feature to enhance safety for 50 million active players worldwide