# Colton Weaver

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## Experience

- **Stripe – Compartments and Accounts Platform** New York, NY
  *(Tech Lead) Senior Software Engineer* *Feb. 2022 - Present*
  - **Stripe Organizations**: Key Contributor to the Stripe Organizations product announced at Sessions 2024 and made generally available at Sessions 2025, a multi-year effort to allow Stripe users with multiple Merchant accounts to manage their Stripe integrations from a single Organization abstraction. Assisted in growing the product from zero users in 2023 to about 30,000 in June 2025.
  - **Stripe Customer and Payment Method Sharing for Organizations**: Designed and led the implementation of a system powered by the Compartments Graph service to allow merchants within an Organization to share Customers and Payment Methods with other merchants in that Organization.
  - **Compartments Graph Service**: Key Contributor to the design and implementation of the Compartments Graph service, which is responsible for the relational data of merchants within Stripe and the Organizations that they are a part of. The data powers the Organizations product experience and AuthZ/AuthN flows of Stripe as well as other portions of the Stripe Network.
  - **Migration from Aurora Postgres to MongoDB**: Key Contributor to a large multi-month migration from Aurora Postgres to the Stripe-managed MongoDB platform, aligning the Compartments Graph technical stack with the technical vision at Stripe. Performed a zero-downtime cutover from Postgres to Mongo with no data corruption or user-facing impact for datasets that power Stripe's AuthZ/AuthN.
  - **Stripe Organizations and Sandboxes Settings Replication**: Authored the "Settings Framework" used within Stripe to encapsulate and manipulate various account and product settings in a simple interface that lives above the data layer. Scaled the framework to multiple teams and transferred ownership of various unowned settings to appropriate owners. Built a system that allows for replication of settings from one Stripe merchant to another within an Organization and to Sandboxes.
- **Amazon Web Services – AWS Lambda** Seattle, WA
  *Software Development Engineer II* *Dec. 2020 - Feb. 2022*
  - **Lambda Sandbox Assignment Service**: Key Contributor to the highly available, low latency Rust service that orchestrates the creation and the lifecycle of Lambda Sandbox resources for invocations to Lambda functions. The service was capable of handling over 50,000 requests per second per host (tens of millions of RPS globally) with an SLA below 10 milliseconds. The service was leader-elected where sandbox state was written to a journal that was replicated by followers to ensure that primary failovers maintained a durable snapshot of all sandboxes.
  - **Lambda Function Concurrency-Based Scaling**: Designed and implemented the mechanism used by the Lambda Sandbox Assignment Service to enable concurrency-based scaling for user Lambda functions.
- **Amazon Web Services – Amazon API Gateway** Seattle, WA
  *Software Development Engineer I* *Mar. 2019 - Dec. 2020*
  - **Backplane Execution Service**: Contributed to the primary service powering the backend of the API Gateway execute API.
  - **Wildcard Custom Domains**: Shipped a customer-facing feature that enabled users to front their APIs with a wildcard custom domain and expose the provided prefix as a variable for usage in the API Gateway logic.
  - **Operations Daemon**: Designed an implemented an on-host daemon that monitored for specific system conditions and retrieved thread dumps and profile snapshots for operational debugging.

## Education

- **Texas A&M University** College Station, TX
  *Bachelor of Science in Computer Engineering - 3.9 GPA* *Aug. 2014 – Dec. 2018*

## Technical Skills

- **Proficient Languages**: Java, Rust, Ruby, Python, C++, Go, Terraform
- **Proficient Technologies**: AWS, PostgreSQL, MongoDB, DynamoDB, Temporal, Prometheus, Kubernetes