Seikun Kambashi

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Experience

Senior Software Engineer, Revenue and Experimentation Team August 2023 – Present
Warp.dev *Remote (Seattle, WA)*

Billing Framework

- Designed and implemented a comprehensive end-to-end billing framework to support multiple subscription plans and enterprise tiers, enabling the company to transition from $0 to $250k ARR within 6 months.
- Integrated Stripe for automated tier provisioning and built a framework to enforce feature limits across all clients and servers. Enabled cross-functional teams to adjust tier limits, define custom enterprise tiers, and run feature-driven conversion experiments.

GraphQL V2

- Standardized the definition of Warp's GraphQL APIs to ensure a consistent format that enables future error types to be added in a backwards-compatible way.
- Established a unified system for propagating request and response contexts between clients and servers, improving reliability and simplifying client-server communication.
- Streamlined the process for defining new APIs, reducing generated Rust code by 10%, and improving compile times and developer productivity on Warp's Rust-based client.

Software Engineer, Application Infrastructure Team August 2018 – June 2023
Databricks *San Francisco, CA / Seattle, WA*

Rate Limiting Service

- Led development of a custom, global rate-limiting service built on gRPC and Redis, handling over 100k QPS of incoming traffic to the control plane in the largest regions.
- Replaced an open-source service with a custom implementation to enable tighter integration with internal tooling, support for dynamic rate limits, and rapid abuse mitigation, reducing response time from minutes to seconds.

Service-to-Service Communication

- Led the transition of Databricks' RPC service framework from using HTTP headers with shared secrets to per-service provisioned secrets for generating signed JWTs, standardizing context propagation across control plane services, and ensuring secure request authentication and auditing.
- Collaborated with cross-functional teams across multiple technology stacks (Python, Scala, Java) to ensure smooth integration and consistent context propagation between services.

Monolith to Microservices

- Contributed to re-architecting Databricks' largest monolithic application into scalable, stateless microservices.
- Extracted authentication and routing into independent services using gRPC and Envoy, reducing p99 latency by 50% and enabling independent scaling of proxy and auth services for high-traffic API requests.

Education

University of Waterloo August 2018
Bachelor of Software Engineering, Co-op Program (with distinction) *Waterloo, Canada*

Skills

Rust, Go, Scala, Python, Kubernetes, Envoy, gRPC, GraphQL, React, Redis, SQL, Stripe API, GCP, AWS, Azure
distributed systems, API design, microservices, service framework

Internships

Software Engineering Intern, Analytics and Reporting Team September 2017 – December 2017
Block Inc. (Square) *San Francisco, CA*

Migrated Square's report generation service to Google Cloud and implemented distributed Spanner reads, optimizing large-scale report processing.

Software Engineering Intern, Backend Team January 2017 – April 2017
Wealthsimple *Toronto, Canada*

Developed and released a ruby-on-rails backend service for a new user onboarding process, A/B tested onboarding flows, and created dashboards to track conversion rates and performance.

Software Engineering Intern, GeForce Now May 2016 – August 2016
NVIDIA *Santa Clara, CA*

Developed Jenkins integration pipelines using AWS CodeDeploy, reducing integration time by 3x. Re-architected deployment processes to enable platform-agnostic microservice deployments.

Software Engineering Intern, Office September 2015 – December 2015
Microsoft *Tokyo, Japan*

Implemented an account linking feature for Docs.com to provide external users access to Microsoft services, and refactored code to improve maintainability and testability.

Data Science Intern, Data Team January 2015 – April 2015
PlaceIQ *New York, NY*

Processed and transformed terabytes of raw data through Spark, supporting ad campaign data needs and optimizing data quality.