Seikun Kambashi

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Experience

Senior Software Engineer | Revenue & Experimentation Team, Code Team August 2023 – Present
Warp.dev *Remote / Seattle, WA*

Codebase Index

- Led design and implementation for the datastore architecture of a vector-based codebase indexing system, powering semantic search across 100k+ codebases.
- Designed schema and integrated with GCP Bigtable (for Merkle tree and embedding caching) and turbopuffer (for high-performance vector search), and built eviction jobs to remove stale data across all the datastores while ensuring consistency and performance under load.
- Implemented Merkle tree diffing logic to reconcile snapshots with real-time file system state on app startup.

Billing Framework

- Designed and built the end-to-end billing framework to support multiple subscription plans and enterprise tiers, unblocking monetization, and driving $3m+ ARR.
- Integrated with Stripe for automated tier provisioning, and implemented a feature enforcement framework across all clients and servers. Empowered cross-functional teams to manage tier limits, define new features and tiers, and run feature-based conversion experiments.

GraphQL V2

- Standardized GraphQL request / response schema and modularized API generation, reducing generated code by 10% and improving Rust client compile times.

Software Engineer | App Infra Team, Gateway Infra Team August 2018 – June 2023
Databricks *San Francisco, CA / Seattle, WA*

Global Rate Limiting Service

- Led development of a custom rate-limiting service on gRPC and Redis, handling 100k+ QPS at the control plane edge.
- Replaced a third-party system to allow dynamic limits, deeper integration with internal tooling and observability, and faster abuse response times (minutes → seconds).

Service-to-Service Auth

- Spearheaded transition of internal service framework to signed JWTs with per-service secrets for RPC authentication.
- Standardized context propagation across Python, Scala, and Java stacks ensuring consistent auditing and auth across all control plane services.

Monolith to Microservices

- Worked on rearchitecting core authentication and routing flows from Databricks' largest monolith into independent stateless gRPC services fronted by Envoy.
- Reduced p99 latency by 50%, enabled independent scaling of proxy and auth services for critical API paths.

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

Migrated Square's report generation service to GCP, optimized large-scale report processing using distributed Spanner reads.

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

Built new onboarding service using Ruby-on-Rails with A/B testing & dashboards for tracking conversion and performance.

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

Built Jenkins + AWS CodeDeploy CI/CD pipelines, enabled platform-agnostic microservice deployment and 3x faster deploys.

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

Built account linking feature for Docs.com to provide external users access to Microsoft services, improved test coverage and code hygiene.

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

Built terabyte-scale Spark jobs for ad targeting and data quality.

Education

University of Waterloo   September 2013 - August 2018
Bachelor of Software Engineering, Co-op Program (with distinction)   *Waterloo, Canada*

Skills

Rust, Go, Scala, Python, Kubernetes, Envoy, gRPC, GraphQL, React, Redis, Bigtable, turbopuffer
distributed systems, API design, microservices, service framework, vector databases