

Kris Tun

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Back-end engineer with high curiosity. I enjoy diving into systems and figuring out how things work.

Experience

Senior Software Engineer - SailPoint

June 2024 - Now

- Identified issues with the existing DSL filter parser (internal tooling) and wrote an improved parser which included type validation, ease of use interface and better handling of multi-byte strings
- Led discussions around Go's idiom and great default tooling (gopls, vet and mod) to alleviate fellow engineers migration from Python to Go
- Streamlined API testing processes and facilitated adoption across team-wide services, significantly improving developer workflow efficiency and deployment confidence through simplified testing protocols.
- Developed additional Temporal workflows within existing orchestration framework, extending distributed processing capabilities for complex policy evaluation pipelines.
- Working cross-functional to onboard new acquired teams to our internal practices. Ensuring they meet deployment standards and 2025 goals for Navigate (internal conference) and general availability

Senior Software Engineer - Unbiased

October 2023 - June 2024

- Led the extraction project of Match flow service into dedicated Golang microservice. Improving performance, latency and fault tolerance through horizontal scaling.
- Identified issues with potential disaster recovery for GCP Pub/Sub and delivered a disaster recovery tool, ensuring Match journey success during system downtime and recovery. This guarantees no financial loss to the company, the advisors and customer experience.
- Identified error prone bottleneck with existing Protobuf flow, replaced an existing manual approach (clone → branch → merge) with full GitHub Action automation directly from protobuf source of truth. (protobuf → PHP/Go SDK)
- Migrated existing auth solution to Google Identity Platform which offers SAML (for SSO) and MFA (via SMS)
 - Enrolled over 5,000 users onto GIP.
 - Implemented lazy migration with fallback auth to ensure a smooth user experience.

Senior Software Engineer - Shopworks

January 2022 - October 2023

- Identified discoverability issues with integration events, replaced manual log filtering from only Slack&GitLab with a centralised OpenSearch approach. This reduced detection time by half and encouraged more services to publish logs to the platform.
- Successfully designed, proposed and led the extraction of monolith components into ECS services. This contributed to a 30% reduction in server costs, improved overall stability during peak load, and reduced the average latency of requests.
- Onboarded new clients through the integration systems, helping them set up initial pipelines to ensure data integrity and guarantee a successful customer integration journey.
- Improved the SolvedBy.AI service to be event-driven. Replacing long-polling with Server-Sent Event (FE → BE) and Webhook (λ → BE) to reduce server load and eliminate unnecessary network calls and database queries.

Software Engineer - GeckoEngage

May 2021 - January 2022

Fullstack Engineer - Pavilion Web

June 2018 - May 2021

Projects

Using Git as an S3 bucket - <https://kristun.dev/posts/git-as-s3>

May 2025

Exploring how to use Git as a backend for S3. This enables first-class integration with application that offers S3 backup.

Alevel.gg - <https://alevel.gg>

June 2022 - Now

A leetcode-like platform for a-level students to complete math problems.

Education

BSc (Hons) Computer Science - University of Glasgow

Sept 2016 - 2020

Languages

Go
Elixir
PHP
Python
TypeScript

Frameworks

GORM, Fiber
Phoenix, LiveView, Ecto, Floki
Laravel, Bref
Django, FastAPI
Svelte, React, Vue, Next, Vite

Etc

AWS, GCP, K8s, Docker
Git
Protobuf
Postgres, Dynamo, SQL
Vim/Neovim