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

- Architected and delivered target policy service enabling JIT machine access across multi-cloud environments, reducing provisioning time by 75% and enhancing security compliance for 10,000+ enterprise users.
- Engineered robust lexical parser for filter expression with Golang SDK, removing all known errors to achieve 100% parsing accuracy and implemented type validation to improve developer experience and provide exact user friendly Bad Request errors.
- 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.

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.
- Developed a disaster recovery tool for Match flow Pub/Sub, ensuring Match journey success during system downtime and recovery. This guarantees no financial loss to the company, the advisors and customer experience.
- Implemented Protobuf SDK automation with GitHub Actions, which increased developer efficiency and reduced human error.
- Enhanced customer authentication with Google Identity Platform for improved security via MFA and Captcha.
  - ‣ 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

- Led a project to improve visibility of service events by introducing OpenSearch, which reduced issue detection time by half. A centralized log service with only relevant information allowed us to analyze trends over the integration services and isolate issues quickly.
- 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.Al service to be event-driven. Replacing long-polling with Server-Sent Event (FE) and Webhook (BE) to reduce server load and eliminate unnecessary network calls and database queries.

Software Engineer - GeckoEngage   May 2021 - January 2022

- Developed internal URL shortening module with Dynamo backed TTL. This reduces character space by up to 80% resulting in reduction of SMS service fees by 50%.

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	Frameworks	Etc
Elixir	Phoenix, LiveView, Ecto, Floki	Git
Go	GORM, Fiber	AWS, GCP, K8s, Docker
PHP	Laravel, Bref	Protobuf
Python	Django, FastAPI	Postgres, Dynamo, SQL
TypeScript	Svelte, React, Vue, Next, Vite	Vim/Neovim