Songjian Li

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Education

Bachelor's Degree in Electronic Information Science and Technology, **HeFei University of Technology**   Sep, 2017 – Jul, 2021

Work Experience

Shopee Inc., ShenZheng, China   Jul, 2021 – Present

Shopee Seller Platform, Backend Development   Jul, 2021 – Jan, 2023

- Business overview: The seller platform is responsible for the site homepage, public capabilities, main and sub-accounts, unified login, and API gateway. It provides merchant-side sites for local and cross-border stores, and efficient operational tools for operations teams.
- Designed and implemented modules such as exchange rates, announcements, pop-ups, review systems, and sidebars. Optimized and maintained questionnaire systems, feature toggle projects, and operational platforms.
- Participated in the OpenResty API gateway development, handling large amounts of traffic, designing and maintaining internal plugins.

Shopee Open Platform, Backend Development   Jan, 2023 – Present

- Business overview: The open platform provides portal sites, OpenAPI authentication and authorization, message push, and sandbox environment, offering stable and high-performance open platform capabilities.
- Responsible for gateway, console, onboarding, review, and push systems modules. Improved system stability and performance, expanded console functionality, and enhanced user experience.
- Participated in business technology development, including regional splitting, remote disaster recovery, observability, project refactoring, service governance, cost reduction and efficiency improvement, and framework integration.

Related Projects

Open Service   https://open.shopee.com/

- Improved system performance and stability: Optimized authentication process (P95 latency 15->8ms), added smooth transition mechanisms and authentication degradation strategies, optimized page loading (some delays reduced by 90%).
- Optimized push system based on regional splitting, effectively reducing cross-region push latency. Developed speed test functionality to assist developers in selecting optimal push servers.
- Enhanced console functionality, adding multiple modules such as statistics dashboard, business analysis, log search, vulnerability monitoring, and penalty system, comprehensively improving platform functionality and user experience.

API Gateway

- Developed multiple core functional modules based on plugin architecture, including ACL, authentication, and data masking plugins, improving system flexibility and scalability.
- Designed and implemented a high-throughput (60k+ QPS) developer call log reporting system, providing data support for downstream analysis systems.
- Implemented a high-performance JSON structure rule processing library, achieving precise control over complex nested objects and arrays, effectively applied to log masking and API sensitive data processing.

Seller Service   https://seller.shopee.co.id/

- Core components include unified pop-ups and sidebars, extensively using asynchronous loading, caching, and message queues, significantly improving seller-side user experience.
- Feature toggle system supports fine-grained blacklist and whitelist management, version control, and rollback, widely applied in business, improving product iteration efficiency and operational flexibility.

Partner Voucher   https://partnervoucher.shopee.co.id/

- Enterprise coupon gift-card management platform, providing organization management, balance, order, and approval flow functionalities. Accumulated hundreds of thousands of dollars in recharges since launch.
- Independently completed platform backend design and development, responsible for cross-team project development promotion, timely progress management, ensuring on-schedule project launch.

Personal Projects

Gnar   ⊙ abcdlsj/gnar

- Intranet port forwarding tool, similar to Frp/Ngork
- Forwarding protocol support TCP/UDP,using Yamux support multiplexing

cLSM

- A LSM-Tree data structure implementation based on SkipList

Skills

- Programming language: Very familiar with Go, familiar with Python, Lua, C++, Rust.
- System and network: Familiar with operating system and network protocols.
- Middle: Good at using daily tools and scripts, with experience in Jira, Gitlab, Confluence.
- Development tools: Good at using daily tools and scripts, with experience in Jira, Gitlab, Confluence.
- Communication: Have strong communication skills and experience with cross-department communication and project management.

Misc

- I am very interested in sharing and recording