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 – Dec, 2022

- Seller platform is responsible for the direction of public capacity, account, login, etc., including API gateway, seller master station, unified login, master-sub-account system, and function switch project.
- Mainly responsible for the development of the seller's main station and function switch project, design and implement several unified framework modules, such as exchange rate, pop-up window, audit system, export center, marking, etc. Design and implement the announcement, sidebar, shop settings, etc. of the main station.
- Design and realize homepage modules such as main site announcement, sidebar, store settings, etc. Maintain services such as questionnaire system and management platform.
- Participate in the development of seller department OpenResty gateway, design and maintain plug-in system.)

Shopee Open Platform, Backend Development   Dec, 2022 – Present

- The open platform provides OpenAPI authentication and authorization, message push, console and other functions, providing comprehensive merchant management capabilities for millions of Shopee stores.
- Mainly responsible for the development of gateway, console, push system and other services to enrich the console functions, improve the performance of authentication and authorization, enhance the observability of the system and improve user experience.
- Participate in region splitting program (off-site multi-live) and disaster recovery program (same city multi-live) to improve system stability.
- Participate in horizontal project development, such as refactoring, cost reduction and efficiency, service governance, region splitting, disaster recovery, etc.

Related Projects

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

- Based on region split, optimize push system delay, and reduce push system delay.
- Add multiple console panels, including call statistics, business analysis, log search.

API Gateway

- Based on OpenResty, developed in Lua, including HTTP/RPC/RPC-Over-HTTP, traffic control, gray rules, authentication, etc.
- Based on plugin system, developed and maintained multiple plugins, including OpenAPI report plugin for calling statistics（60k+QPS），data sent to Kafka for other systems to provide data support.

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

- Includes unified popups, sidebars, etc. With asynchronous loading, cache and message queue, it greatly improved the response speed and seller experience.
- Function switch project used for flexible configuration of feature blacklist, with tagging, version management and rollback, it is widely used in the department.

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

- Online voucher code management service, including organization management, balance, order and approval flow.
- Independently complete backend design and development, and work with multiple teams to achieve project development and management.

Personal Projects

Gnar   ⭘ abcdlsj/gnar

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

cLSM   ⭘ abcdlsj/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