李松健

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教育经历

合肥工业大学，电子信息科学与技术专业，计算机学院，本科   2017 年 9 月 – 2021 年 7 月

工作经历

深圳虾皮信息科技发展有限公司   2021 年 7 月 – 至今

Shopee 卖家平台, Backend Development   2021 年 7 月 – 2022 年 12 月
- 业务介绍：卖家平台负责站点首页、公共能力、主子账号、统一登录和 API 网关等方向，为本地和跨境店铺提供商家端站点，为运营提供高效运营工具。
- 负责设计并实现汇率、公告、弹窗、审核系统、侧边栏等模块，维护问卷系统、功能开关和运营平台等服务。
- 参与开发卖家部门 OpenResty 网关，设计并维护内部插件。

Shopee 开放平台（同组不同业务），Backend Development   2022 年 12 月 – 至今
- 业务介绍：开放平台提供 OpenAPI 鉴权授权、消息推送、沙箱环境和门户站点等业务，提供稳定高性能的开放平台能力。
- 主要负责开发网关部分、控制台、入驻、审核和推送系统等，提高核心鉴权性能，丰富控制台功能，提升系统可观测性和提高用户体验。
- 参与业务其它开发，如地区拆分、异地灾备、重构、降本增效和服务治理等。

项目经历

Open Service   https://open.shopee.com/
- 提高系统性能和稳定性，优化鉴权流程（P95 耗时 15->8ms），增加平滑过度机制和鉴权降级策略，优化站点页面延迟（部分页面降低 90% 延迟）。
- 基于地区拆分方案优化推送系统，有效降低异地推送耗时（600->30ms）。提供控制台测速功能，帮助开发者选择最佳推送服务器。
- 为用户控制台添加多个模块，如统计看板、商业分析页、日志搜索、漏洞看板、惩罚系统等，丰富平台功能提升用户体验。

API Gateway
- 基于插件系统开发多个插件，包括 ACL 插件、鉴权插件和打码插件等。
- 设计实现了开发者调用日志上报插件（60k+ QPS），通过 Kafka 传输，给下游系统提供可靠的数据支持。
- 实现高性能 JSON 结构规则处理库，实现对嵌套对象和数组的精确控制，用于打码上报日志与 API 敏感数据。

Seller Service   https://seller.shopee.co.id/
- 主站服务包含统一弹窗、侧边栏等核心模块，内部广泛采用了异步加载、缓存和消息队列等技术，显著提升了首页响应速度和卖家体验。
- 功能开关项目用于灵活配置功能黑白名单，具有打标、版本管理和快速回滚等功能，广泛应用于卖家各项业务。

Partner Voucher   https://partnervoucher.shopee.co.id/
- 企业优惠券购买管理平台，提供组织管理、余额、订单和审批流等功能。上线以来累计充值数百万美元。
- 独立完成平台后端设计与开发，负责跨团队推进项目开发部分，及时管理进度。

个人项目

Gnar   ○ abcdlsj/gnar
- 内网端口转发工具，类似于 Frp/Ngork，转发协议支持 TCP/UDP，使用 Yamux 支持连接多路复用。

cLSM   ○ abcdlsj/clsm
- 基于 SkipList 的 LSM-Tree 数据结构实现（BloomFilter、SkipList）。

技能

- 编程语言：熟悉 Go，了解 Python、Lua、C++、Rust，熟悉算法与数据结构。
- 操作系统 & 网络：熟悉操作系统，包括进程、内存、Linux、多路复用、容器化技术。熟悉常见网络协议。
- 中间件：熟悉 MySQL、Redis、Kafka 的使用和原理，有 Elasticsearch、Clickhouse、RabbitMQ 使用经验。
- 开发工具：善于使用日常工具和脚本，熟悉 Jira、Gitlab、Confluence 等团队协作工具。
- 沟通 & 协作：具有独立设计和实施解决方案的能力，善于跨部门协作与沟通，有效管理项目进度并确保按时交付。

其它

- 喜欢折腾和探索不同领域的技术，热爱分享和记录。

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 plugin system, develop multiple plugins, including ACL plugin, authentication plugin, log reporting plugin, and captcha plugin.
- Call log reporting plugin (60k+ QPS), and use Kafka to report data, to provide reliable data support to the downstream system.
- Implement high-performance JSON structure data processing library, and implement accurate control of nested objects and arrays, to support the log reporting and API sensitive data.

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