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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, 后端

2021 年 7 月 – 2023 年 1 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 OpenResty API 网关开发, 处理大量业务流量, 设计和维护内部插件。

Shopee 开放平台 (同组不同业务), 后端

2023 年 1 月 – 至今

- 业务介绍: 开放平台提供门户站点、OpenAPI 鉴权授权、消息推送和沙箱环境等业务, 提供稳定高性能的开放平台能力。
- 负责网关、控制台、入驻、审核和推送系统等模块, 提升系统稳定性和性能, 扩展控制台功能, 提升使用体验。
- 参与业务技术方向开发, 如地区拆分、异地灾备、可观测性、项目重构、服务治理、降本增效和框架接入等。

项目经历

Open Service

<https://open.shopee.com/>

- 提升系统性能与稳定性: 优化鉴权流程 (P95 耗时 15->8ms), 添加平滑过渡机制和鉴权降级策略, 优化页面加载 (部分延迟降低 90%)。
- 基于地区拆分方案优化推送系统, 有效缩减异地推送耗时 (600->30ms)。开发测速功能协助开发者选择最佳推送服务器。
- 增强控制台功能, 新增统计看板、商业分析、日志搜索、漏洞监控、惩罚系统等多个模块, 全面提升平台功能与用户体验。

API Gateway

- 基于插件架构开发多个核心功能模块, 包括 ACL、鉴权和数据脱敏插件, 提高系统灵活性和可扩展性。
- 设计并实现高吞吐量 (60k+ QPS) 的开发者调用日志上报系统, 为下游分析系统提供数据支持。
- 实现高性能 JSON 结构规则处理库, 实现对复杂嵌套对象和数组的精确控制, 有效应用于日志脱敏和 API 敏感数据处理。

Seller Service

<https://seller.shopee.co.id/>

- 包含统一弹窗和侧边栏等核心组件, 广泛采用了异步加载、缓存和消息队列等技术, 显著提升卖家端用户体验。
- 功能开关系统支持精细化的黑白名单管理、版本控制和回滚, 在业务中广泛应用, 提高产品迭代效率和运营灵活性。

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, 保障项目如期上线。

个人项目

Gnar

🐙 [abcdlsj/gnar](https://github.com/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](https://github.com/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 – 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.
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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 (600->30ms). 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](https://github.com/abcdlsj/gnar)

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

cLSM

 [abcdlsj/clsm](https://github.com/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