

洪鹏程

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教育背景:

- 工学硕士-同济大学计算机技术专业 2019-2022
- 工学学士-天津理工大学计算机科学与技术专业 2015-2019

实习经历:

- 2021.06-2021.08:
在华为杭州研究所, Cloud Bu 部门 EI 智能体项目群实习, 作为后端开发实习生负责深圳智慧机场登机口基础信息构建及甘特图与机位冲突接口整合业务, 具体工作包括重构登机口基础信息表及相应 CRUD 功能、基于设计需求实现机位冲突展示功能, 使用 Git 工具提交分支代码, 使用华为云 CloudDevOps 工具自动化构建出包并利用 Docker 发布镜像至服务器集群

工作及项目经历:

- 2022.05-2023.03 亿贝软件工程(上海)有限公司 软件工程师 2
在应用平台部门工作, 参与内部项目开发, 包括:
项目一介绍:
该项目是平台框架组的核心项目, 对平台内部管理的 3000+生产环境下的应用进行每月的自动化框架升级, 包括: 1. 针对框架所依赖的组件做 E2E test; 2. 根据一些真实的测试 app 做 dry run 并分析出现的问题, 维护框架内部的问题; 3.release 新的框架版本(类似于 Spring/Springboot), 并自动通知用户升级。
主要技术:
Raptor(Spring5)+Raptor.IO(SpringBoot)+Elastic Search+Kibana etc.
责任描述:
 - 分析并解决针对第三方依赖的组件在端到端测试出现的问题
 - 参与统计 dry run 测试的结果, 并分析总结一些常见的问题
 - 基于 Elastic Search+Kibana 统计并可视化数据, 包括像用户升级版本花费的时间, 当前的版本等内容
 - 沟通审核模板文件, 配置发布到服务器
 - 针对 release 的新版本, 对所有生产环境的 app 自动发送 Jira, 通知用户升级
项目二介绍:
该项目是框架内部提供的开发工具, 针对 eBay 内部管理的 Maven 仓库, 自动生成 Maven 本地配置文件, 旨在减少开发者配置 Maven 文件的时间, 用户无需手动配置本地的 settings.xml 文件来访问仓库并下载依赖的 jar 包。
主要技术:
Go+三方库(cobra, etree)
责任描述:
 - 分析理解需求, 技术选型
 - 阅读开发文档, 参考 ssh-keygen 风格设计该工具, 独立负责代码实现
 - 设计并提供用户文档
 - 内部 Demo 展示
 - 后期维护
成果:
实现配置文件自动生成工具, eBay 内部所有开发者根据这个工具下载 maven 依赖 jar 包(根据用户权限上传到部分 Repository), 方便后续开发。

项目三介绍:

该项目是针对 Maven 打包插件制定的测试框架，eBay 内部有一套定制的构建工具，对于使用框架开发的用户而言，开发完的 App 需要通过 Assembler 这样的打包插件得到内部定制的压缩包，而 Assembler 支持功能很多，包括对使用 Spring/Springboot/Nodejs 这些不同技术栈类型的 App 打包，同时也支持部署运维在 eBay 内部两套不同基础架构下的打包格式，但人工检验 Assembler 打包功能正确性比较复杂和耗时，需要一套集成测试框架对其检测。

主要技术:

Raptor+Raptor.io+Maven+JUnit5+Groovy+k8s

责任描述:

- 理解项目需求，负责代码实现
- 基于 JUnit5 测试框架定制 Assembler 测试框架，抽取公有测试逻辑，发布测试 jar 包
- 集成所有类型的测试 App，编写测试代码
- 针对所有类型的测试 App 编写自动化测试脚本 Jenkinsfile，设计一个完整的自动化测试模块
- 内部 Demo 展示
- 后期维护

成果:

最终实现了一套基于 JUnit5 的针对打包工具的测试框架以及集成了所有测试应用的自动化测试模块，根据不同的测试 app 类型，框架提供不同处理逻辑进行检验，并将具体的测试点放到测试应用中执行。通过这样一套完整的解决方案正确验证 Assembler 打包后 release 新的版本，极大减少了测试时间。

掌握技能:

➤ 软件开发相关技能:

- 具备 Java 开发相关经验与能力，了解 Python、Golang 等常用后端语言
- 了解 JSP、Servlet、Mysql
- 熟悉 Spring、SpringMVC、Spring Boot 开发框架，熟悉 Spring5 相关原理（包括 BeanFactory、Bean 生命周期及其后处理器功能，AOP 思想及其动态代理实现技术）
- 熟悉基本设计模式（包括单例、抽象工厂、工厂方法、建造者等）
- 了解常见的 Java IO 模型并学习掌握 netty 框架
- 了解 Java 多线程开发及 JVM 底层原理
- 熟练使用构建工具进行项目开发（包括 Maven、Git、Jenkins 等）
- 具备完整的项目开发运维经验，简单使用 Docker、K8s 云原生命令

英文水平:

➤ CET-6(529)

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Education Background:

- **Tongji University**
- **Tianjin University of Technology**

Sep. 2019- Mar. 2022
Sep. 2015- Jun. 2019

Internship Experience:

- 2021.06-2021.08:

Intern at Huawei Hangzhou Research Institute, Cloud Bu department EI project group, as a back-end development intern develop for the gate business of Shenzhen Smart Airport, including restructuring the table of gate information and its CRUD operations under the SSM framework, realizing crafts site conflict display function based on demands. Using Git to commit feature branch to develop branch. Using HUAWEI CloudDevOps to build and deploy image and publish it on server cluster with Docker.

Work and Project Experience:

- 2022.05-2023.03:

Worked as a SDE 2 in the application platform department of eBay Software Engineering (Shanghai) Co., Ltd., and participated in internal projects research and development, includes:

Project one:

This project is the core part of the application platform team, which upgrades framework version automatically for 3000+ applications under production environments, focus on: 1. E2E test for the components that the framework depends on; 2. Do dry run test according to some real apps and analyze the problems that occur in test, maintaining the incompatible problems from the framework; 3. Release new framework versions (similar to Spring/Springboot) and automatically notify users of upgrades.

Main technologies:

Raptor(Spring5)+Raptor.IO(SpringBoot)+Elastic Search+Kibana etc.

Description of responsibility:

- Analyze and resolve end-to-end test issues for third-party components
- Participate in statistical results of dry run tests. Analyze and summarize some common problems
- Statistics and visualization of data based on Elastic Search + Kibana, includes how long it takes users to upgrade latest framework version, current assembler version, etc.
- Communicate and review template files, publish configuration file to the server
- File Jira automatically to all production environment apps' owner to notify upgrading of it

Project two:

The project is a development tool provided by the framework team, which automatically generates Maven local configuration files for the Maven repository managed by eBay, aiming to reduce the time for developers to configure settings.xml files, and users can access the repository and download dependent jar packages without manually configuration of local settings.xml file.

Main technologies:

Golang+Third Library(cobra, etree)

Description of responsibility:

- Analyze and understand needs, technology selection
- Read the technology documentation, design the tool referring to the ssh-keygen style, and be responsible for the code implementation
- Design and provide user documentation
- Internal demo display
- Post-maintenance

Outcomes:

Implemented a setting.xml generation tool. All developers within eBay download the maven dependency jar package (uploaded to some repositories according to user permissions) according to this tool to facilitate subsequent development.

Project three:

The project is a test framework for the eBay's packaging plugin based on Maven, eBay has a set of customized build tools, for users who use the framework to develop, the developed App needs to get an internal customized compressed package through a packaging plugin such as Assembler, For Assembler which supports packaging different technology stack types of app like Spring/SpringBoot/Node.js. At the same time, it also supports packaging formats of deployment and operation under two different sets of eBay infrastructure, but manually verifying the correctness of Assembler's packaging function is complex and time-consuming, and an integrated test framework is required to solve this.

Main technologies:

Raptor+Raptor.io+Maven+JUnit5+Groovy+k8s

Description of responsibility:

- Understand project requirements and be responsible for code implementation
- Customize the Assembler test framework based on the JUnit5 test framework, extract the public test logic, and release the test jar package
- Integrate all types of test apps and write test code
- Write automated test scripts (Jenkinsfile) for all types of test apps and design a complete automated testing module
- Internal demo display
- Post-maintenance

Outcomes:

A set of JUnit5-based test framework for Assembler is implemented and all test applications are integrated in automated test modules in final. According to different test app types, the test framework provides different processing logic to check and put specific test points into test applications for execution. With such a complete solution, it is possible to release a new Assembler version after integration test, which greatly reduces testing time.

Skills:

- Experienced in JSP, Servlet, Mysql.
- Have project development experience with JAVA and familiar with Python, Golang
- Understand Spring, SpringMVC, SpringBoot development framework and basic design patterns.
- Understand JVM memory distribution, class loader mechanism, garbage collection algorithm.
- Understand Java IO models and lean to master netty framework.

Awards:

- 3rd Prize People's Scholarship
- 3rd Prize Awarded in "HUAWEI CUP" the 16th China Post-Graduate Mathematical Contest in Modeling

English Level:

- CET-6(529)