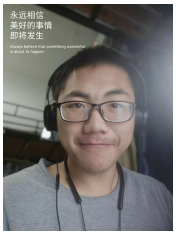

JOHN CHEVER
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Java
C++
Golang
Dart
Linux

EDUCATION

Jiangsu University of Science and Technology (JUST), Jiangsu, China September. 2018 – Present

B.S. in Software Engineering (SE), expected July 2022

EXPERIENCE

All of the following activities can be found on my GitHub account.

1. API7 Inc. Shenzhen, China January. 2022 – April. 2022

Server-side Development Engineer (Intern) Tech Stacks: Golang, Python, Lua, Docker, K8s, gateway

Brief introduction: The company is an open-source startup whose main open-source products are the high-performance cloud-native gateway Apache APISIX, APISIX Ingress, and Service Mesh. During my internship, I worked on testing and developing the Apache APISIX go-plugin-runner and adding some annotation and new authentication methods to the APISIX Ingress resource. My development work has enabled me to understand cloud-native concepts, clarify the technical details inside cloud-native gateways, and gain competency in underlying middleware development. In addition, I have output several technical documents covering datadog, Prometheus, GraphQL, Ingress, and APISIX itself. Writing documentation has given me the ability to read open source product documentation and quickly understand new technologies. I am also responsible for maintaining the IM communities, helping to resolve user issues, understanding user requirements, and translating them into product optimizations. The following is an overview of my work:

- Built the e2e testing framework for go-plugin-runner;
- Refinement of the APISIX testing framework and refactoring of the entire test content, with the main effort being to remove all invalid return body data.
- Covered e2e testing for Apache APISIX and APISIX Ingress as well as added new functionality for annotation and hamc-auth authentication methods.
- Added documentation for the Apache APISIX ecosystem, including but not limited to datadog, GraphQL, Prometheus, etc.
- Maintain IM communities (slack, QQ, WeChat) and act as a community specialist to help users provide solutions to problems, listen to needs and translate them into the optimization of the product.

2. Maintenance and upgrade of cross-platform NFC read/write kits May. 2021 – Present

Core Developer Tech Stacks: Golang, Dart, Flutter, NFC protocol

Brief introduction: It is a maintenance and upgrade of the NFC reading and writing kit project in collaboration with the Tsinghua University tuna open source community. The project is based on the Flutter framework, which implements a cross-platform NDEF format parsing library, mobile NFC framework, and NFC information reading application NFSee. In addition, to the extent that I could, I did some bug or project-level maintenance work. You can download the NFSee application and try out the NFC functionality of the read/write suite I maintain.

- Migrated all three provided projects to Flutter version 2.0;
- Maintain NDEF library and fixed bugs;
- Maintain flutter-nfc-kit library and fixed bugs;
- Maintain NFSee and fixed interface bugs.

3. RuoYi-Vue-PostgreSQL April. 2021 – Present

Maintainer Tech Stacks: Java, PostgreSQL, Vue

Brief introduction: RuoYi is an entirely open-source rapid development platform. In my junior year, I was commissioned by the university department to develop an integrated management system. Since the technology selection was Vue and PostgreSQL, and RuoYi did not have such an extension project, I took the time to complete the project and made the source code public to complement the ecology of RuoYi. Currently, my project has received official approval. In this project, I gained an understanding of PostgreSQL databases and an enhanced understanding of the basic ideas of the Spring framework. This gave me the ability to do significant business development and adapt to the mainstream business development of today.

- Added support for PostgreSQL

2. Maintenance and upgrade of cross-platform NFC read/write kits May. 2021 – Present

Core Developer Tech Stacks: Golang, Dart, Flutter, NFC protocol

Brief introduction: It is a maintenance and upgrade of the NFC reading and writing kit project in collaboration with the Tsinghua University tuna open source community. The project is based on the Flutter framework, which implements a cross-platform NDEF format parsing library, mobile NFC framework, and NFC information reading application NFSee. In addition, to the extent that I could, I did some bug or project-level maintenance work. You can download the NFSee application and try out the NFC functionality of the read/write suite I maintain.

- Migrated all three provided projects to Flutter version 2.0;
- Maintain NDEF library and fixed bugs;
- Maintain flutter-nfc-kit library and fixed bugs;
- Maintain NFSee and fixed interface bugs.

4. School Projects January. 2019 – April. 2021

Maintainer Tech Stacks: PHP, Python, Java, PostgreSQL, Vue, Spring

Brief introduction: During my university years, I have been involved in several projects,

including maintaining the faculty rewards and punishments website of the Academic Affairs Office in my first year, joining the big data research work in my sophomore year, and participating in the development of a comprehensive student management system in the Student Work Office in my junior year. In a series of experiences, I got the strengthening of basic business development skills. I developed a series of experience in website maintenance and proficiency in website development techniques.

- Teacher reward and punishment system, website based on lnmp technology framework and PHP laravel build. Mainly learn MVC idea and ORM operation database.
- Big data research project to study sunspot variations. I mainly learned several techniques of pre-processing data and mastering the typical big data framework Tensorflow and artificial intelligence models.
- The website was developed with a front-end and back-end separation, using Git to work with the front-end students. The Spring rapid development framework RuoYi was selected and finally deployed using Docker. I learned and mastered the idea and development concept of the Spring framework and the advantages and primary usage of PostgreSQL, a multi-process database.

MISCELLANEOUS

- Languages: English - Fluent, Mandarin - Native speaker
- Honors: Lead a hardware maintenance team to maintain all hardware equipment in the school and be familiar with various computer hardware troubleshooting tasks