

I'm Jianjun Guo

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Skills

Java, Spring Boot, Hibernate, Maven, Git, REST API, MySQL, Postgresql, MariaDB, Redis, H5, Angular, JavaScript.

Education

GSU CS M.S - inprogress, will graduate on Dec.12 2022
KSU CS BS - From Jan.1 2018 to Dec.15 2020

Experience

I was a Lab teaching assistant of GSU computer science. And I am a new graduate student.

Project

1.

GitHub: backend - <https://github.com/RyanDude/FallSemester.git>

Spring Boot backend And Angular frontend project.

I made a simple web application for students and professors. With the Spring Boot framework as the backend, I used jwt and Spring security for login. And the jwt is stored as the httpOnly cookie to guarantee the security. And I should use https, but I don't have money for that. The TokenAuthFilter extending the BasicAuthenticationFilter will verify if the request coming to the backend has the correct token. Another filter which extends the UsernamePasswordAuthenticationFilter will verify the user's username and password for login. The backend has 3 roles, ROLE_STUDENT, ROLE_MENTOR and ROLE_ADMIN, different roles have different authorities. JPA is used to get and send data to the Postgresql. Redis is used for the signout function and refresh token. The frontend is made by Angular, and I use the proxy for cors. I deployed the spring backend with docker to EC2(2GB memory). Then, I changed the max heap size of JVM for the deployment because the default heap size(512MB) is too large, and most of the threads are not used. And then continuing configuring the JVM, such that the JVM will clean the garbage when 30% heap memory is free.

2.

I used Spring Boot, SOAP, Postgresql, Maven, and Hibernates to make an application that can send and receive soap format messages. Paging and sorting are applied into the project. The .xsd xml file will generate the classes like student, getStudentRequest or etc, after using maven compiling the

file. I test these APIs with Postman. And then I deploy the project into local kubernetes which is mini Kuber.