JUNDONG XIAO MALE 01/1995

BACKEND-FOCUSED FULL STACK ENGINEER WITH 6+ YEARS OF PRACTICAL EXPERIENCE
IN SERVER-SIDE DEVELOPMENT, REST API, AND AGILE SCRUM PROCESS,
PLUS A PROVEN WORK RECORD OF DELIVERY, OWNERSHIP, AND ADAPTABILITY.

BACHELOR OF ENGINEERING, COMPUTER SCIENCE
MANDARIN, ENGLISH (PTE 58), GERMAN (NOVICE)

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EXPERIENCES

present | 2019

Full Stack Engineer

Digiwin Software — Nanjing, China

- My developer team adopts an agile development model, led by a Scrum Master (SM) , we work in sprints of 2 weeks duration. Each sprint begins with a sprint planning meeting, where we confirm requirements with the Product Owner (PO) and allocate development tasks.
- We develop a SaaS application based on the Athena platform. I am mainly responsible for backend development and sometimes I also write front-end code. I also responsible for the code reviewing of junior developers, as well as the optimization and refactoring of some historical code.
- Our team encourages the use of design patterns such as factory methods, builders, and the strategy pattern in our code. We emphasize the importance of naming and believe that self-explanatory code is superior to comments.
- On the backend side, We use Intellij Idea for writing code, Maven for building Java projects, and Git for version control. For code quality control, we choose SonarLint and Alibaba Coding Guidelines plugins. When performing performance optimization, we also use PinPoint to inspect service call chains and server load pressure. Additionally, we use Druid Monitor to check the execution status of SQL statements.
- On the frontend side, we use VSCode and the ES Lint plugin for code writing. We use NPM for building Angular projects, and we choose Ant Design by Ant Financial as our UI library.

2019 | 2018

Backend Engineer

Juyun Information Technology — Nanjing, China

- This is my first job and I am responsible for the backend development of the disinfection and sterilization system for linen and surgical instruments at Wuhan First Hospital, using C#/.Net, EntityFramwork and SqlServer to develop Web API and Winform desktop applications.
- After the project was launched, it received praise from the nurses, and then the company was successfully selected as a high-tech enterprise by virtue of the project.

SELECTED PROJECTS

present | 2023

Supply Chain Guardian

Nanjing, China

- Supply Chain Guardian is a SaaS application based on Athena platform that I developed from scratch, it focuses on supply chain management of new energy electric vehicles. It provides our clients functionalities like Sales Order Risk Detection, Production Manager Shipping, Inventory Coordination, Delivery Signing, etc. Our customers include both parts and main engine factories, including well-known main engine manufacturers like Great Wall Motor, Geely Auto, BYD Auto, etc.
- When developing the Sales Order Risk Detection feature, I encountered an issue where the API for retrieving engine components returned a large amount of data, often causing timeouts or exceeding the maximum value of the HTTP response body. To address this problem, I implemented an asynchronous call approach to retrieve the parts in batches. I stored the response results of each batch in a temporary table. Once all the batches were completed, I merged and assembled them into a BOM (Bill of Materials) tree for further analysis.
- The Supply Chain Guardian project has successfully completed 15 iterations of development, with 22 clients currently using it. This includes renowned automobile manufacturers such as BYD Auto, Great Wall Auto, Geely Auto, and more.

2022 | 2021

Purchurser with Drawing

Nanjing, China

- Purchurser with Drawing is a project which can meet the needs of clients to purchase parts from suppliers using specific versions of drawings. It primarily implements the control functionality of attaching drawings to inquire orders and purchase orders within the whole production life cycle of the work orders. In this project, my main responsibilities are performance optimization and code refactoring.
- During the refactoring process, I discovered that the performance of the inquiry order information retrieval service was poor, with excessively long response times. Additionally, there were occasional issues with not being able to retrieve database connections from the connection pool, producing a negative impact on user experience. Firstly, I examined the service call chain on PinPoint and identified a service with a long processing time. Using the time stamps obtained from PinPoint, I searched on Druid Monitor and found a specific SQL statement that took an unusually long time to execute. Each request to this service would occupy a database connection from the pool, causing subsequent requests to fail in acquiring connections. After analyzing the SQL statement with the EXPLAIN statement, I discovered that the number of rows scanned by the SQL statement far exceeded expectations. The cause was the use of the SUBSTRING function in the WHERE condition, which deactivated the index on the corresponding field. By preprocessing the parameters and then performing the query, the speed significantly improved, and the issue of failing to obtain a database connection no longer occurred.
- After the refactoring and optimization of the PWD project, the product's response speed significantly improved. The customer was satisfied with the results and decided to renew the product for an additional year.

SKILLS (PROFICIENT)

Programming Languages

Java
C#
SQL
ECMAScript 5
ECMAScript 6
HTML5

Technologies

Sping Boot
Restful Service
Guava
Vavr
Retrofit
Mybatis
JsonPath
Maven
Entity Framwork
Web API
Linq
Nuget Package Manager
Git
MySql
MairaDB
Sql Server
Redis
NodeJS
NPM
Angular
Ant Design
Echarts
Bootstrap

Knowledge

Multi-thread Programming
Asynchronous Programming
Coroutine
Pure Function
Design Pattern
HTTP
Responsive Web design
MVC
MVVM

2019 | 2020

After-Sales Cloud

Nanjing, China

- After-Sales Cloud solves the common problems encountered by after-sales service in the equipment manufacturing industry, such as difficulty in tracking progress, difficulty in supervising after-sales quality, and difficulty in tracing equipment maintenance.
- We developed a web application using Angular and also provided a WeChat mini-program for mobile terminals. In this way, After-Sales Cloud allows after-sales maintenance engineers to view the specific machine of the equipment to be repaired and the location of the repair report on the mobile terminal. Each device has a unique QR code as an identifier. Engineers can also add their own experience to the knowledge base. Here we use search engine technology to allow engineers to fuzzy query and quickly locate the shared knowledge based on keywords.
- Our clients can also easily call engineers on mobile devices and share the problem they are facing. They can track repair progress in WeChat mini-program whether on the web or mobile terminal., and evaluate the engineer's service after the service is completed.

EDUCATION

2018 | 2016

Bachelor of Engineering, Computer Science

Nanjing University of Science and Technology ZiJin College — Nanjing, China

National Encouragement Scholarship

2016 | 2013

Mechatronics

Vocational College of Information Technology — Nanjing, China

SKILLS (FAMILIAR)

Programming Languages

TypeScript
Dart
Shell

Technologies

CSS3
Docker
Kubernates
Dart
WeChat mini-program
Elasticsearch
Neo4J
MongoDB
cUrl

Knowledge

Container
Mobile App
Search Engine
NoSQL
Graph Database
CQL