

Jianmin Dai

Full Stack Developer

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[CNA]

Project: Car Warranty System

Title: Full Stack Developer, Feb 2023–till now

Responsibilities:

- Maintain Agent–Dealer–Portal Front–End (Angular) and Design, Develop the new applications (Reports–UI, Dealer List Forms, Update to GA4) in Angular, Node.js, WebStorm
- Design, Develop Internal Claim System (ICS) UI in React, Node.js, WebStorm
- Design, Build and Test MicroServices(ICS, Rating Service & Engine) By Apiary, Confluence, Git, IntelliJ & Spring boot, Spring WebFlux, Spring Cloud, Oracle DB & PL–SQL, PostMan, Mock & Unit Tests
- Update Micor Service Clients from RestTemplate to WebFlux WebClient
- Deployed the app and services to Dev, UAT, Product by Gitlab CI/CD (Jenkins), Docker and Helm & Rancher K8s, Nexus Repository
- Integrated the OKTA security with Front–End Application and MicroService Spring boot projects
- Working in Scrum, Jira, Confluence
- AWS service: Store Parameters, AWS Kafka

Env:

- Gitlib, IntelliJ, STS, WebStorm, Jira, Confluence, Scrum, Microsoft Meeting, Oracle, OKTA, Spring Boot, Spring cloud, Spring WebFlux, Angular 15+, React 11+, Kafka

[Comcast]

Project: Comcast Locker System

Title: AWS,Spring Boot Developer III, Aug 2022–Jan 2023

Responsibilities:

- Maintain the Comcast Locker System, including
 - Locker–US: Netty–Spring–API, Mybatis, Oracle DB, Couchbase Cache, RabbitMQ, AWS Kinesis
 - Locker–EU: Netty–Spring–API, Mybatis, AWS PostgreSQL, Couchbase Cache, AWS SQS, SNS, AWS Kinesis
- Expand the Account Gateway APIs
- Update message gateways from AWS SDK 1.x to AWS SDK 2.x
- Refactor Comcast Asset Swap Tool

Env:

- Github, IntelliJ, Jira, Confluence, Scrum, Slack, AWS SDK (SQS, SNS, Kinesis, Kafka), MyBatis

with Oracle DB and PostgreSQL, Spring Boot APIs,

[Pax Technology Inc

Project: MultiLane Terminal JPxSeriealService

Title: Senior Java Developer Mar 2022–Aug 2022

Responsibilities:

- Moving the JPXSS project to Jenkins (CI/CD) and docker image
- Develop and optimize JPXSS REST APIs including Swagger–OpenAPI 3 Design and Document of JPXSS APIs, JAVA CompletableFuture Asychnoized JPXSS APIs, Spring Boot 2 RestControl
- Optimize the JPXSS APIs Framework by Data–Message–Driven architecture and MultiLay Services Design Using Java Concurrent Data Structure replacing JAVA observer Pattern, including CompletableFuture APIs requests Queue Manager, PCLData TLVBuilder(Java Builder Pattern), PCLBytes Parser(Java Factory Pattern), Java Enum & Java OOP to process PCL types(50+commands, 4 data type: int, string, binary, EMV)
- Coordinate with QA team and customer in Jira and confluence to analyze the JPXSS tickets by Test–Driven method and solve the problems, then release the new JPXSS APIs version in SVN server and sharepoint
- Improved JPXSS APIs security quality including SSL Customer RMI factory, SSL HTTPs Proxy, Java SSL, Spring4Shell vulnerability
- Upgrade JPXSS from spring boot 1.5.24 to 2.6.6, USB JSSC to 2.9.6
- Optimize JPXSS parameters between fast NGINX server and slow USB Terminal including connection keep–alive, SSL–buffer–size, HTTP 1.1 content–length parser and chunk merge
- Optimize JPXSS Multiple Threads process like JPXSS SafeHeart, USB Monitor, JPXSS replyService Thread using FixedThreadPool (Java Scheduler, Java TimeTask, Asynchronized Future Lambda function)
- Build JPXSS Automation Test Frameworks including Junit5 & Mockito &MockMVC APIs unit Spring Boot Test cases; Postman Integration test cases; SoapUI REPLY REST APIs for JPXSS; Node.js & Macho &Chai Loop Tests; cURL APIs Test
- Spring Boot Cloud build APIs including Eureka Server/Client, ZipKin, API Gateways, OpenAPI Swagger
- Spring Boot AOP,Spring Completablefuture, Appium / Selenium, Terminal Simulator YAML configuration, Mockite & Junit5 to build the unit test framework to automation test
- Re–design PPM Cloud System with new system structure: React/Node.js as Front–End, Rest APIs with Spring–data (CRUD repository / Hibernate) for my SQL (in processing)

Envs:

JDK11, Spring–Tool–Suite 4, SPRING BOOT1 & SPRING BOOT2,Spring Boot RESTControl, OpenAPI3, Maven, JAVA–CORE, JAVA CONCURRENCE, JAVA–MULTIPLECORE &THREAD, HTTP1.1 & SSL, JUnit5, Mocha, Node.js, Chai, Postman, cURL, SoapUI, USB JSSC, SVN Server, Eureka, ZipKin, API Gateway, Appium/Seleium, Jenkins&docker

[Arizona State University: SOLETLAB

Project: Reading and Writing Intelligent Tutoring System: iSTART & Wring Pal

Title: Full Stack Software Develop & DevOp Oct 2011-Mar 2022

Responsibilities:

- Designed the Framework of Reading and Writing ITS using UML2, ER Database Diagrams by MySQL Workbench,
- Developed the ITS system Architecture using Spring Framework (HTML5, Bootstrap2, Spring MVC, Spring Workflow, Spring Security, Spring Data, Spring JSF (Ajax), Spring JPA & Hibernate, NGINX Server, Tomcat Server, MySQL Server) including Account management, Learning Strategy Setup for Classroom, Learning Strategy Lessons management, Learning Practice Games management, Reading Texts Management, Writing Essay Libraries.
- Designed and Developed Natural Language Processing & AI algorithms and Integrated with ITS using ActiveMQ, JMS, C# Message Connection including Reading Self-Explanation Scoring, Writing Essay Scoring, Text-Cohesion Scoring etc.
- Designed and Developed the Learning Games using FlexBuilder (flash version), CreateJS & HTML5 Javascript (Javascript Version)
- Designed and developed Learning Adaptive Control management using ObjectMapping JSON and Spring MongoDB for extended setup parameters and faster loaded than MySQL Relation DB
- Developed and Integrated into ITS with extension Modules like Multiple-Document Reading and Writing system, Summary Reading System, Think-aloud Reading System, Based Writing-Rubric Scoring System
- Operated MySQL SQL queries to retrieve the Original Data for researcher; MySQL SQL dump data backup; Optimized Database Operation including audit Long-Query and create Index etc.
- Design and Developed iSTART-Early project framework by Front-End(Angular10, Node.js) and Back-End(Spring Boot REST API, Spring CRUDRepository, Spring Data Redis) architecture and Integrated into existed ITS with re-using the Teacher UI Module
- Design and Developed iSTART and WPal Algorithm APIs using Spring Boot, REST APIs, CompletableFuture, Apache Kafka with Python WAT NLP algorithms

Envs.

JDK8, JDK11, STS, Spring Boot, REST APIs, Spring Web, Spring Security, Spring JMS, ActiveMQ, Spring JSF, JPA & Hibernate, Spring Data Redis, JSon, HTML5, Javascript, Bootstraps, Angular, Node.js, JQuery, MySQL, UML2, Tomcat Server, NGINX Server, Apache Kafka, ActiveMQ, NLP tools(Rserve, JPython)

Project: Cohmetrix-ALAE

Title: C# & Python Software Develop Oct 2011-Mar 2022

Responsibilities:

- Re-Designed and developed the robust Text Analysis Tool (ALAE) based on Cohmetrix project still using VS2010 C#
- Re-Designed the Text Index Tree Structure for 1000+ indices to optimize the text processing time
- Designed and developed the algorithm index parser tool to optimize algorithm computing time
- Developed Multiple-core Executor for computing unit to extend the NLP computing capability

- Designed and developed different NLP parse to integrate into ALAE (OpenNLP, Character Parse, SpaCy)
- Designed and Developed WAT NLP algorithms tools using Python 3
- Design and Develop Logging System for ALAE processing using MySQL, C# sqlCommand)
- Developed CommonCore T.E.R.A website using IIS, ASP.Net with ALAE
- Developed .Net Message API integrated with ALAE for algorithm computing
- Developed ALAE instance (Multiple-Core) management UI using .Net UI to start, ready, busy, stop

Project Experience (before 2008)

- Hubei Daye endowment insurance policy analysis and evaluation system(Dec 2007-Dec 2008)
Design and implement system architecture(Rational, J2EE, Hibernate, Spring, Oracle 10)
- Hunan Marine Water Safety automated command and control decision-making and evaluation system(Winter 2006-Dec 2008)
Design and implement system architecture(Rational& Power design, J2EE, Java SWT, Hibernate, Webwork, Oracle 9.0 & MySQL)
- 2006 Institution of Higher Education Web Content manager for decision –making and evaluation (PA, design system architecture, J2EE, Microsoft SQL)
- 2005 Yangqian(ShanXi) Coal Wind Network Comprehensive assessment system (system designer & programmer, Dephi, MapInfo GIS)
- 2005-2006 Henan Power Network Comprehensive assessment system(system designer & programmer, VS2003 C#, Mapinfo GIS, Microsoft SQL)
- 2004 Shijiazhuang City Water Network Comprehensive assessment system(system designer & programmer, Dephi, MapInfo GIS)
- 2004-2005 Distributed Simulation Support Platform for making-decision support system(system design &programmer, Visual C++, HLA, , Microsoft SQL Server)
- 2003 WISCO Jinshandian project management decision-making support system(system designer & programmer, Powerbuilder, Sysbase Database)
- 2000-2002 Guangxi ICBC Bank Personal Business Data Analysis and decision-making support system(assistant system designer & Programmer, Visual Basic, Oracle)
- Teaching Experience

EDUCATION

Huazhong University of Science and Technology, China— *PH. D.*

Aug 2002 - June 2006

System Engineering, Department of Control Science and Engineering

Huazhong University of Science and Technology, China— *M.S.*

Aug 1997 - June 2000

Control Engineering, Department of Control Science and Engineering

Huazhong University of Science and Technology, China — *B.A.*

Aug 1997 - June 2000

Control Theory, Department of Control Science and Engineering