042801

Software Architect

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Summary

I am a software architect currently working at France Telecom. My areas of interesting include design of distributed architecture, Cloud computing, and Microservice. I have more than one decade of hands-on experience on software design and development, I have developed software across many industry sectors including Telecom, Banking, Ecommerce, and Media.

Key Skills

Back End:	Java, Golang, Nodejs, Spring boot, Spring Cloud, MyBatis
Front End:	JavaScript, ReactJS, HTML, CSS
Middleware:	Redis, Kafka, Zookeeper, MySQL, Nginx, HAProxy, MongoDB, ELK
Infrastructure:	Linux, AWS, Huawei Cloud, Docker, Kubernetes, Prometheus, Grafana, Gitlab, Ansible

Work Experience

France Telecom (法国电信)

Software architect   Aug. 2014 – PRESENT

- Design and implemented highly available, resilient, scalable distributed infrastructure in **Huawei Cloud** and **AWS Cloud** with Microservice technology to meet the rapid business growth demand
- Lead the development work, coaching junior developers, do **code review**, help troubleshooting, and streamlining the development workflow by automating testing with **Selenium**, built **CI/CD** pipeline with **Gitlab** and Log intelligence with **ELK**
- Transform the monolithic architecture into **Microservice**, containerize application, manage the system cluster using **Kubernetes**, this greatly improved the software evolution and enable fast release cadence
- Involved in the development team management and task tracking by following the **Agile** methodology, evolve product iteratively, delivering product in a fast pace
- Worked with Product Owner on customer feedback handling and business analysis, provided technical feasibility studies and recommendation, investigating competing products
- As a Scrum Master, **coordinating** development resources and **communicating** with other teams distributed around different countries (UK, France, Indian, Romania)

Naver (Korea's top one search engine company)

Senior Software Engineer   Dec. 2012 – Aug. 2014

- Responsible for design and pilot development of multiple products, deep customized development based on Opensource solution, spearhead core function implementation

- Participated in the company's logging system refactoring project, in which we use **Kafka** as a distributed message queue to collect and transfer the log to a variety of systems
- Work closely with Korean management team on product roadmap and feature definition as well as similar product researching
- Lead a small and agile team, keep everyone motivated and working efficiently toward the goal of successful product

IBM

Senior Software Engineer   Sep. 2011 – Dec. 2012

- Developed modern banking solution with IBM **WebSphere** technology for customer, help replaced their old clunky Broker system
- Debugging and fixing system defect in customer's site, automate manual work, improved team's working efficiency
- Developed Smart ATM system with bidirectional communication technology (**Cometd**), deployed and integrated it with complex ATM hardware, ensure the hardware and software can work seamlessly together, provide 99.999% SLA.

AAXIS (A US Ecommerce Solution Provider)

Software Engineer   Apr. 2010 – Sep. 2011

- Developed two middle-sized enterprise ecommerce solutions with Java and **Oracle ATG** for Sephora and Sur la table respectively
- Work with external service providers such as Tax calculation provider, Payment provider to integrate their services into the product

Enrising (Domestic Telecom software Solution Provider)

Software Engineer   Sep. 2007 – Apr. 2010

- Work as a developer, responsible for development, maintenance, customer support of the Business Supporting System of Sichuan Telcom
- Developed Telcom Device Management System for Sichuan Telcom with **Java Eclipse RCP, Spring, Struts, and Oracle database**

Key Projects

Livescreen

- Content (News, Video, Gaming, Weather) distribution system, curated content was delivered to viewers using recommendation system, five million monthly active users were served with variety of news, video, and gaming content
- Built a **clustered cloud** environment in **AWS** and **Huawei Cloud** to enable highly availability, set up **Kubernetes** to running services in the pod enabling auto-scaling of system capacity
- Created microservice architecture using **Spring Boot** and **Spring Cloud** which improved the product rollout, make the system much more adaptable to requirement changes
- Setup **Kafka** message queue, decoupled dependencies between systems, simplified the complexity of service communication

- Developed distributed Crawler system to fetch content from content providers using **Golang, MongoDB, Zookeeper**
- Front end architecting using **ReactJS** and **Cordova**, the **H5** page was running inside Android and IOS as a hybrid APP
- Involved in **DevOps**, setup code pipeline using **Gitlab**, help setting up health monitoring system, alerting, and system maintenance using Cloud Console

Ncrazer（日志分析平台）

- Crash log analysis system, used on mobile APP to track errors, logs was transmitted to distributed log process system, the APP owner can view their APP's health via dashboard visualization
- Design and developed the Web dashboard visualization, support dynamically managing dashboard view with configurable charts and diagram, used: **NodeJS**, **BackboneJS**
- Involved in the distributed **Kafka** log broker system, the system handles a billion number of logs per day, used: Kafka, **Elasticsearch**

Telecom Business Supporting System (四川电信业务支撑系统)

- BSS solution for Sichuan Telecom (四川电信), facilitate customer's business operation, automate and track customer's business deployment, support its fast growing business
- Implemented the ADLS business operation module (ADLS 宽带开通业务) , built on **Spring, Struct, WebLogic, Oracle Database**
- Developed device management system (电信机房设备管理系统) using **Eclipse RCP and TWaver** visualization
- **SQL** tuning, responsible for business data extract from database, write system guide and customer question answer and support

Smart VTM (广发银行智能 ATM 机)

- A smart automatic teller machine solution for China Guangfa Bank (广发银行)，It is a whole solution including both hardware and software
- Implemented a rich and stable user interface which is to be displayed in the ATM machine to help user completing their business operation
- Use **Cometd** (Similar as WebSocket) to implement server push notification so the customer representative can remotely guide the customer
- Integrated with various hardware by utilizing finite state machine and event driven design pattern

Honors

I am a member of Orange Expert Group; I am a member of Orange Senior Software Group; I have two patents claimed by France Telecom

Education

Chengdu University of Information and Technology

B.S. in Computer Software   Sep. 2003 – Jun. 2007