

Profile

- 11+ years of full-time software development.
 - Pingan Bank (5 month): Elasticsearch plugin development, cluster operation, performance optomization and ES technical review.
 - Wanda(1+ years): Private Cloud PAAS platform early and now working on Feeds Recommendation system.
 - Autodesk(10 years): Full Stack Development.
- · Focus on Elasticsearch, solid skills and rich experience on ELK
- o Solid skills with full stack web development & architecture. Various experiences on backend, frontend, deployment.
- The experience on specific domain vertical Search/Recommendation system
- o DevOps related skills, such as Docker, Kubernetes. Familiar with AWS.

Skills

- Language: Java, Scala, Python, Bash/Linux, JavaScript, Go, C++
- Framework: Spring Boot, Play, Swagger, AngularJs, Bootstrap
- Database & middleware: MySQL, Redis, Couchbase, Elasticseach, Kibna, Hbase, Zookeeper, Kafka
- DevOps: AWS, Docker, Kubenetes, Jenkins, Apache/Tomcat

Experience

Pingan Bank / Retailer & Technology Group / Big Data platform Architect 2018/2 to present Focus on Elasticsearch:

- 1. Elasticsearch SQL plugin development:
 - o Support query ES using standard SQL syntax
 - Extend ES SQL functions to do variou via Plainess language
 - o SQL validation, caching, and limit big concurrent query
- 2. Elasticsearch cluser operation and performance optomization
 - The metrics for single ES cluster: 200 millions records increment with 1 TB size per day, 2+ billions records with 20 TB size total
 - Solve the unstable problems, such as: Crash, No response, Long GC, etc.
 - Theb ig query issue: Aggregation among 2+ billions records with big cardinal number fields, the latency should be less than 10 seconds
- 3. Technical review about Elasticsearch:
 - The best practice & convention for ES development, operation and maintenance
 - Technical support

Wanda / Internet Technology Group / Feeds & Ads platform Senior Developer 2017/5 to 2018/1 www.ffan.com

A personalized feeds recommendation system, similar as Twiter or JinRiTouTiao in China. It recommend the premium articles about Fashion/Tourism/Foods based on user profile and article's NLP features, which are crawled from internet.

Focusing on architecture and technical solution definition:

- As team leader, design and develop the distributed crawler system, which is based on Kafka(message broker)/Hbase(to save crawled articles)/Webmagic (the crawler library), with 50k+ premium articles increment per day and 20+ source websites(Toutiao, Weixin, UC, Sina, Xiaohongshu, etc).
- As core developer, design and implement the feeds recommendation system.
 - The offline article process pipeline (article clean & filter, NLP extracting, tagging, de-duple, etc)
 - o The inverted index & recall system
- o Design and setup web infrasture: the Elasticsearch cluster(to store online article), the Redis cluster(the inverted index

Technical Stack: Java/Python, Spring boot, HBase, Redis, ELK, Kafka, Thrift, Machine learning/NLP

• Wanda / Internet Technology Group / Cloud platform Senior Developer 2016/10 to 2017/5

Build the cloud PASS platform Web Console based on Docker and Kubernetes, make the CI & CD as a PASS service.

- As core developer, led a team to build a set of backend API from scratch to support CI & CD based on Kubernetes and Docker SDK. Focusing on architecture and technical solution definition, coding practice and modularizing components etc.
 - Based on Fabric8 k8s SDK, a group of APIs about service life cycle and resource management etc.
 - o Customize Docker base images for various of appliation
- 2. Coordinate the project feature scope and milestones with PM, lead the team to develop and deliver APIs in time.

Technical Stack: Java, Spring boot, Docker, Kubernetes, Jenkins, MySQL

- Autodesk Homestyler & EZHome Platform Senior Developer 2015 to 2016/10 www.shejijia.com
 Build the O2O home platform for EZHome (one of the largest home retailers in China) by leveraging Autodesk cloud design service.
 - Design and implement the search/index service for catalog/product based on Elasticsearch. Support features: query & filter by various of criteria, full-text search, ranking by customized weights(retailer, brands), etc.

Technical Stack: Java/Scala, Play Framework, Elasticsearch, AWS SQS.

- Deign and setup web infrastructure with high criteria to improves the stability and the reliability of system. Actions are:
 Setup service cluster with AWS ELB, Couchbase cluster cetup, Elasticsearch cluster setup, AWS VPC setup.
 - **Technical Stack**: AWS ELB/EC2/SQS, HAPoxy, Couchbase, Elasticsearch.
- Design and lead to build a set of backend API services(Micro-service oriented) from scratch. Focusing on architecture
 and technical solution definition, coding practice and modularizing components etc.

Technical Stack: Java, Spring boot, Jersey, Swagger, AWS, Couchbase, MySQL

 Design and lead a team to implemented AngularJs based back office website for administrators and various message driven services for distributed computing -- model process, index update.

Technical Stack: Java/Scala, Javascript, AngularJS, Bootstrap CSS, Html5, AWS S3

 Work closely together with Ops to set up the build and deployment system for backend, writing scripts for migration or ad hoc requirements.

Technical Stack: Bamboo, Python, Bash, Linux

- Autodesk 2007 to 2014
 - 2013 to 2014 Autodesk Tinkercad www.tinkercad.com

A simple, browser-based 3D design/modeling and 3D printing app for all.

- Designed and implemented the core mesh processing algorithms: imprint image on mesh surface, emboss text on mesh surface, mesh slicing, etc.
- o Implement REST APIs based on feature's requirements
- o Responsible for Tinkercad deployment.

Technical Stack: Go, Javascript/NodeJs, Bash/Linux, SVG, clipper.js, tess2.js.

• **2011 to 2013** Autodesk 123D Family app www.123dapp.com

A family of free online apps to design and modeling.

- o Setup the Web Infrastructure, design and implement CI & CD system.
- o Design and implement various of features from UI to modeling.

Technical Stack: Java, Javascript, Python, Bamboo, AWS

• 2007 to 2010 Autodesk Sketchbookwww.sketchbook.com

A desktop 2D sketch&paint tool.

• Implement various of brush painting, image processing features.

Technical Stack: C++, QT

Education

o 2002 to 2006: Bachelor of Huazhong Agricultural University(Computer & science)