
Profile

- 11 years of full-time software development.
 - Wanda(1+ years): Private Cloud PAAS platform early and now working on Feeds Recommendation system.
 - Autodesk(10 years): Full Stack Development.
- Solid skills with full stack web development & architecture. Various experiences on backend, frontend, deployment.
- The experience on specific domain vertical Search/Recommendation system, especially in using Elasticsearch.
- DevOps related skills, such as Docker, Kubernetes. Familiar with AWS.

Skills

- **Language:** Java, Scala, Python, Bash/Linux, JavaScript, Go, C++
- **Framework:** Spring Boot, Jersey, Play, Swagger, AngularJs, Bootstrap
- **Database & middleware:** MySQL, Redis, Couchbase, Elasticsearch, Kibana, Hbase, Zookeeper, Kafka
- **Web Infrastructure:** AWS, Apache/Tomcat, Varnish, HAProxy
- **CI/CD:** Docker, Kubernetes, Jenkins

Experience

- **Wanda / Internet Technology Group / Feeds & Ads platform Senior Developer 2017/5 to present** 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)
 - The inverted index & recall system
 - Design and setup web infrasture: the Elasticsearch cluster(to store online article), the Redis cluster(the inverted index for article), ELK, Elastic job(the distributed job scheduling)**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** www.ffan.com
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.
 - 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.
 - Design 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 setup, Elasticsearch cluster setup, AWS VPC setup.

Technical Stack: AWS ELB/EC2/SQS, HAProxy, 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.
 - Implement REST APIs based on feature's requirements
 - 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.

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

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

- **2007 to 2010** Autodesk Sketchbook www.sketchbook.com

A desktop 2D sketch&paint tool.

- Implement various of brush painting, image processing features.
 - UI

Technical Stack: C++, QT

Education

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