刘森华
FULL STACK DEVELOPER & DEVOPS

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Profile

- 10 years of full-time software developments (6+ years of full stack web development, 4 years of C++ development); extensive role of technical team lead
- Solid skills with full stack web development & architecture
- Various experiences on backend, frontend, deployment, 2D/3D graphics and mesh processing
- Strong practices of micro-service oriented architecture with scalability, performance and high availability
- Good knowledge on RESTful services build and integration
- Familiar with object-oriented and functional programming, cloud computing, AWS
- DevOps related skills, such as Docker, Kubernetes
- Passionate on the newest technology and open sources

Skills

- **Language**: Java, Scala, JavaScript/NodeJs, Python, Bash/Linux, Go, C++
- **Backend Framework**: Spring Boot, Jersey, Play framework, Mybatis, Swagger
- **Frontend Framework**: AngularJs, JQuery, Google Closure Tools, Bootstrap, HTML5, SVG
- **Database**: MySQL, NoSQL(Couchbase, Redis), Elastic search
- **Web Infrastructure**: AWS, Apache, Varnish, Haproxy
- **CI/CD**: Docker, Kubernetes
- **Tools**: Git, Maven, NPM, Grunt, Bamboo

Experience

- **Wanda FFAN Information Company** *Senior Developer* **2016/10 to present** 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 Environment: Java, Spring boot, Docker, Kubernetes, Jenkins, MySQL

- **Autodesk EZHome Platform** *Senior Developer* **2016/5 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 service.

  - Led a team to build a set of backend API services from scratch. Focusing on architecture and technical solution definition, coding practice and modularizing components etc.
  - Designed and implemented RESTful API based Framework. Micro-service oriented for separated development, easy deployment and comfortable maintenance. Used by all EZHome RESTful API based backend projects.
  - Coordinate the project feature scope and milestones with PM, lead the team to develop and deliver APIs in time.

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

- **Autodesk Homestyler Floorplan** *Senior Developer* **2015 to 2016/5** www.homestyler.com
  An HTML5 and WebGL based product that targets on real 3d visualization for home decoration.

  - Proposed, designed and implemented 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).
    Technical Environment: Java/Scala, Play Framework, Elasticsearch, AWS SQS.
  - Designed and led a team to implemented AngularJs based back office website for administrators and various message driven services for distributed computing -- model process, index update.

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

- Re-establish backend service web infrastructure and setup all environments 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 Environment: AWS ELB/EC2/SQS, HAPoxy, Couchbase, Elasticsearch.

- CAD exporting & other 2D modeling features – parse design data in web page and translate to AutoCAD format for professional designs following work. 2D elements rendering on Svg canvas, etc.
  Technical Environment: Javascript, SVG, Canvg, raphael.js, etc

- Work closely together with Ops to set up the build and deployment system for backend, writing scripts for migration or ad hoc requirements.
  Technical Environment: Bamboo, Python, Bash, Linux

- **Autodesk Tinkercad** *Senior Developer* **2013 to 2014** 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.
    Technical Environment: Javascript/NodeJs, SVG, clipper.js, tess2.js.

  - Implement REST APIs based on feature's requirements

  - Responsible for Tinkercad deployment.

  Technical Environment: Go, Javascript/NodeJs, Bash/Linux

- **Autodesk 123D Family app** *Frontend Developer* **2011 to 2013** www.123dapp.com
  A family of free online apps to design and modeling.

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

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

- **Autodesk Sketchbook** *C++ Developer* **2007 to 2010** www.sketchbook.com
  A desktop 2D sketch&paint tool.

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

  Technical Environment: C++, QT

Github Projects

- **play-nosql** https://github.com/liusenhua/play-nosql.git
  A starter kit project to demonstrate how to use various NoSQL DBs in Scala Play2, as well as document REST APIs with Swagger.

Education

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