

Siyan Zhao

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Professional experienced software developer with 20+ years of hands-on experience building web products from inception to launch to utilizing fullstack, DevOps CICD technology and especially enjoy back-end. As a researcher, involved/developed experimental projects in Bigdata, Internet of Things(IoT) , telecommunications and AI fields, convert to 10+ patents.

Work Experience

Hydsoft

Senior Engineer

(March 01, 2017 - May 12, 2023)

- Developed map big data using spark/scala, improved code and increase performance up to 20 times.
- Optimized AWS services configurations and reduced run time by 50%.
- Independently designed/implemented/deployed several whole microservice systems including 40+ APIs using gRPC, springboot/mvc, redis/rabbitmq, using javascript/JQuery with hundred of pages.
- Completed distributed system automation deploymen by scripted using shell,python,jenkins,dockerfile/k8s, ansible, Hashicorp tools on AWS,Azure,Monsoon.

Ericsson

Researcher

(June 01, 2010 - January 01, 2014)

- Programmed android application and data protocol, APIs,using spring/hibernate in IoT project
- Research stream frameworks(s4,storm,hadoop etc) to apply to big data project on AWS, and make papers.
- Obtained 10+ patents

Misys

Expert Engineer

(January 01, 2014 - February 01, 2017)

- Developed/Designed 30+ Rest APIs with frontend using spring/spring-security/angularJs
- Mentored a team of six junior engineers to complete bank core software development
- Optimized RestAPIs by JMeter,Postman,JUnit Test/Mockito,Fix SonarQube/Fortify issues to solve low performance and bugs

EMC

Principal Engineer

(April 01, 2008 - May 01, 2010)

- Implemented Web2.0 community webiste using PHP Dolphin
- Developed EMC Document Science product utilizing ASP.net,C#

Education

University of Electronic Science and Technology

Bachelor Degree, Computer Science

(September 01, 1993 - September 01, 1997)

Projects

Develop map big data system

Develop Microservice& Optimize system running
(January 01, 2023 - May 12, 2023)

- Use Spark/scala and DPL library to handle map big data validation, coding features&Optimization.
- DevOps tools:AWS Cloudwatch, Batch, Ecs,Ec2, S3, Emr, Aws cli, K8s, GitLab, deployed project with them.

Develop Microservice systems

this is for financial compliance system
(March 01, 2020 - January 01, 2023)

- Independently complete the design/develop micros service systems
- Design/Document using confluence,jira
- Deploy tools : Git,Jenkins,Rancher,Sparrow
- Code review/fix: twist,fortify,sonaQube
- Angile framework
- Monitor tools: ELK, prometheus
- Debug & troubleshooting many issues

DevOps Development

Development existed projects to Clouds
(March 01, 2017 - March 03, 2010)

Make projects dockerize and containerize and delopy to clouds

- scripted vmware/virtualbox to setup local env
- make images: docker/packer/shell/python
- delopy tools:
nomad/consul/vault/ansible/terraform
- build tools: jenkins/ansible
- clouds: AWS/Azure/Monsoon

Skills

Backend Development

Senior



SpringBoot/SpringMVC/SpringCloud/Hibernate

Hadoop/S4/Storm/Spark/Scala

PHP/Python/Golang/Shell/JSF

Apache/Nginx/Tomcat/Jboss

RabbitMq/Redis/Memcached/Spring Security

Oracle/MySQL/Couchbase/Hbase

Frontend Development

Junior



Jquery/Html/Css/Javascript

Vue/React/Typescript/Angular

DevOps Development

Senior



Docker/K8s/Rancher/Sparrow

Hashicorp(Nomad,Concul,Vault)

Jenkins/Ansible/Shell/Python

Git/GitLab/AWS/Azure/Monsoon

Test Development

Junior



JUnit/Jmeter/Karate/prometheus/grafana

Elasticsearch/Logstash/Kibana

Interests

Hobbies

Listen Music/Watch Tiktok

Play table tennis, badminton

Languages

Chinese

Expert



English

Senior



Awards

U.S. Patent Phrase to Phrase Matching

Bronze

(June 01, 2022)

skyscreen rank 163

 <https://www.kaggle.com/competitions/us-patent-phrase-to-phrase-matching>

Certifications

AWS Certified Solutions Architect - Professional

AWS

(April 02, 2018)

Publications

Automatic detection of device type for filtering of data

Ericsson

(September 01, 2012)

 <https://patents.google.com/patent/US9445391B2/>

Method and apparatus for anomaly detection in a network

Ericsson

(November 26, 2013)

 <https://patents.google.com/patent/US10069691B2>

Personal Blog

Website

 <http://dohints.com/>