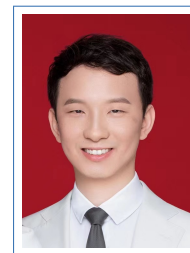# Song Sun

Senior SRE / DevOps Engineer

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Knowledge is power
Francis Bacon

Personal Information

Date of Birth	03/10/1989
Citizenship	China
Gender	Male
Self Introduction	I am able to read / write / contribute projects written in Python, C, Golang, Javascript, Java, Kotlin. Using Python as my main programming language. I understand Linux deeply, use it heavily and am able to debug software running under it. I understand most commonly used data structure and algorithms. As SRE Engineer, I keep large amount of servers running in cloud or with bare metal machines. As Software Engineer, I wrote code to automate my work, I read code of open source projects, eg: python, redis, django, openjdk, golang, etc. I work with developers side by side (need to read their code as well) to make sure the whole system runs as expected. I also have experience interviewing engineers and limited experience leading junior ones. I keep learning new technologies and theories behind them.

Skills

Development

Languages	Python, Shell/Bash, C, Golang, Java	Web	HTML, JavaScript, React
Frameworks	Django, web.py, Flask, Tornado	Databases	MySQL, PostgreSQL, Redis, SQLite
ORM	Django ORM, SQLAlchemy	Search	Elasticsearch
Formats	YAML, JSON, Markdown	Methods	Object Oriented Programming, MVC, Unit Tests, TDD, Scrum
Source Management	Git	Tools	GitHub, GitLab, Gitea, Stackoverflow, devdocs
Others	Celery		

Cloud

Cloud Brands	AWS, Alicloud, DigitalOcean, QingCloud	Cloud Tools	Terraform, AWS Python API
Cloud Experience	EC2, S3, Cloudfront, VPC, ELB, RDS, ElasticCache, ECS, ECR, EKS, DMS, Route53, SES, IAM	PAAS	Heroku, Dokku

CI / CD

Tools	Jenkins, Github Action, Gitlab CI, Harbor, Minio, Teleport, Hashicorp Vault, Packer

Systems and Networks Administration

Web	Nginx, Caddy	Monitoring	Zabbix, TICK

Mail	Mail-in-a-box		Backup	rsync, mc, rclone
Deployment	Ansible, Vagrant, Docker, Kubernetes, Dokku		Networks	OpenVPN, PPTP, L2TP, VPC Network
Operating Systems	GNU/Linux (Ubuntu, CentOS), MacOS, Windows		Databases	MySQL, PostgreSQL, Redis
Virtualization	VirtualBox, Xen/XenServer, KVM		Container	Docker, Docker Compose, Podman
Security	SSL, PGP/GnuPG, OpenSSH			
DNS	CloudFlare, CoreDNS, DNSPod			
Load Balancer / Reverse Proxy	Nginx, Kong, Haproxy, Keepalived, Varnish			

Office and tools

Office	Slack, OpenOffice/LibreOffice, Microsoft Office, Google Doc		Project Management	Jira, Trello
Wikis	MediaWiki / Github Wiki		Issue Tracking	Github, GitLab

Communication

1	Able to explain technical concepts to non-technical users		2	Able to give speech publicly in both English and Chinese
3	Experience working with customers			

Experience

IT Experience

2021 — 2022

Senior SRE Engineer, Talkdesk (https://talkdesk.com).

SRE Engineer
- Maintaining Talkdesk Infrastructure in AWS.
- Maintaining Ansible / Terraform scripts for various software.

2015 — 2021

DevOps Engineer, Wiredcraft (https://wiredcraft.com).

DevOps Engineer
- PostgreSQL HA using patroni / haproxy / etcd / confd / keepalived
- Deisgn and implement the infrastructure of large scale systems for Dior and Walmart using Kong as microservices management tool, haproxy as internal load balancer
- Fine tuning Nginx / Haproxy config to be secured and implemented in best practice way. eg, SSL setup to support only modern web browsers and redirect url using http protocal to https
- Redis High Availablity with Redis Sentinel
- NSQ High Availability
- Linux Cluster with Xen (simulating a linux cluster)
- Zabbix Custom Scripts / Configuration / Zabbix Proxy
- Docker Compose experience
- Deploying Kubernetes
- Deploying TICK Platform (Telegraf / InfluxDB / Grafana / Kapacitor)
- ELK (Elasticsearch / Logstash / Kibana) deployment for logging system
- Limited experience in Golang
- Work on Digitalocean API client in Python and many other open source projects. Refs: Wiredcraft Open Source Repos (https://github.com/orgs/wiredcraft-ops)
- Worked on many other automation scripts with Python / Bash
- Projects I worked for: Walmart / Sams, Starbucks China, Dior, World Bank Open Data Site, Myanmar Elections Software, Etam, PwC, Ye Dian for AB InBev.

2014
2015

Python Developer, Kanjian Music (http://www.kanjian.com).

Python Developer
- Develop API using web.py/Gunicorn/Mysql/SQLAlchemy/redis
- Develop API using Django Rest Framework
- Web Development using Tornado
- Crawl web pages using Scrapy
- Design Twitter-like features
- Design cache system for data model
- Design and implement code refactoring from monolithic projects to micro-services projects

2013
2014

Python Developer, *Release Manager*, Delivery Hero China (http://waimaichaoren.com).

Python Developer
- Code for a project of online food ordering website, from front end html/css/js to all kinds of online ordering process written in Python/Django;
- Deployment using fabric;
- Migration with South;
- Test using Nose;
- Experience in GeoDjango using PostGIS;
- Data visualization with Google API(Google Map);

Education

2007
2011

Student, *Bachelor's Degree in English Language and Literature, College of Art & Science of Jianghan University in Wuhan.*

Foreign Languages

Chinese	Native	*Mother Tongue*
English	Fluent	*Use it everyday, excellent performance on communicating with team members*

Personal Interests

Music	Listen Piano Music, Singing
Sports	Swimming
Programming	Exploring Github, Sourceforge
Others	Reading, watching movies, finding new approaches to solve problems, learning online at Coursera, watching open course videos