

KEJIAO SUI

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Summary of Qualifications:

- Programming Language: C, Python, Golang.
- Distributed System: Kafka, RabbitMQ, gRPC.
- Load Balancing: Scalable L4+L7 LB, Nginx, Haproxy, IPVS, eBPF
- Microservice/Container Orchestration: Kubernetes, docker.
- Computer Networking: SDN, Routing, Switching, TCP/IP, L2/L3 protocols, OpenvSwitch.
- Database: Mysql, Cassandra, MongoDB, Redis
- Key-Value Store: Consul
- Automation: Jenkins, Ansible, Chef
- CyberSecurity: Network Security, Cloud Security Service
- Platform: Linux/Unix.

Professional Experience:

Fortinet, Inc., Sunnyvale, CA | Senior Software Engineer | 11/2018- Current

1) Traffic Shaper Project:

- Involved in designing traffic shapers' architecture.
- Implemented the traffic shaper features and verified with different scenarios.
- Worked with different teams to accomplish the traffic accounting feature.

2) Policy Lookup Engine Project:

- Developed the linux kernel driver codes to optimize policy configurations to the hardware chip.
- Discussed the policy based routing feature with co-worker and implemented this feature.
- Worked on SNAT policy lookup feature.

DigitalOcean, Inc., NYC, NY | Software Engineer | 07/2017 - 11/2018

1) Cloud Scalable Load-Balancer Project:

- Designed and implemented the Load-Balancer regional microservices, making the Load-Balancer service more scalable, effective, and stable.
- Optimized the current Load-Balancer product via using ECMP, IPVS, Haproxy.
- Participated in researching, designing, and implementing the horizontally auto-scaling Load-Balancer with kubernetes .

2) Cloud-Firewall Project:

- Developed the cloud-firewall service for users to set firewall rules for their virtual machines.
- Built async-microservice system to serve cloud-firewall, and used consul cluster to store firewall rule-sets.

3) Mentorship:

- Couched the summer intern to use golang to build a auto-scaling tooling system to benchmark scalable products based on different requirements.

Cisco System, Inc., San Jose, CA | Software Engineer | 06/2015 – 07/2017

1) ROBOT Project:

- Used Kubernetes to build the data pipeline and microservice platform to deploy routing network monitoring/analyzing applications.

2) GRPC Project:

- Involved in designing and implementing gRPC server architecture on routers.
- Developed gRPC(google RPC) edit/query service to manage router configurations.
- Built authentication/authorization mechanism for router configuration service.
- Used Jenkins to construct the automation for the gRPC project.

3) Routing System Show Cmds:

- Cooperated with teammates to work on designing the show cmds framework.
- Implemented show commands for components in IOS-XR routing operating system.

High-Speed Networking Lab, New York University, NY | Research Assistant | 09/2013 - 05/2015

1) Software-Defined-Networking DDoS Defence Project:

- Involved in researching and accomplishing a DDoS attack detecting and mitigating strategy for software-defined networking(SDN).

2) Data Center Anomaly Detection Project:

- Optimized the scalable, real-time anomaly detection method for data center, enhancing the accuracy of detecting problems by 3.4%.

Education:

New York University, NY, USA | 09/2013 - 05/2015

- Master of Science, Electrical and Computer Engineering

University of Electronic Science and Technology of China | 09/2009 - 07/2013

- Bachelor of Science, Computer Engineering GPA 3.62/4.0 (top 3 of 100)

Certificates:

Duke University, Durham, NC, USA | 09/2017 - 05/2018

- Data Science, GPA 4.0/4.0

Awards:

New York University, NYC, USA | 09/2013 - 05/2015

- Graduate Innovation Fellowship