

Fisher Yu 13918677360 yuff100@[163|hotmail|gmail].com

- 13 years C/C++ experience
- 13 years large scale telecommunication product development
- 9 years small/medium team management (up to 30 team members)
- Experience on high performance high availability backend architecture and development
- WeChat 公众号: DeepNoMind

Private Information

Gender: male
Birth: 1982/01

Projects

Mavenir Systems:

2022/05 till now: NPN (Non Public Network)

- Manage NPN R&D team
 - o Manage NPN requirement
 - o Define R&D process
 - o Manage team performance
 - o Support customer tickets
- Manage SDaaS (Smart Deployment as a Service) R&D team
 - o Manage SDaaS requirement
 - o Define R&D process
 - o Manage team performance
 - o Support customer tickets

2019/09 till now: 4G/5G RAN/BBU

- Design/Develop 4G/5G RAN/BBU system.
 - o Design/Develop 4G/5G RAN microservices architecture and middleware
 - Design multiple services to decouple O-RAN CU-UP
 - Design CUPS architecture for 4G CU
 - Introduce gRPC for inter-service communication
 - Design scaling solution based on user defined resource
 - Design data access layer service
 - o Support customer and lab
- Design user space fastpath based on DPDK/VPP
 - o Design fastpath which compatible 4G and 5G
 - o Design user space slowpath and fastpath split architecture
 - o Introduce new version of VPP/DPDK (up to VPP 20.09 now)
 - o Investigate DPDK/VPP new functions (DDP/Binding/rte_flow/QoS)
- Lead CICD/Automation testing team, drive DevOps practice

- Set up CICD/Automation testing team
- Set up in-house automation testing framework
- Drive test team to work with GitOps
- Set up multiple R&D CICD pipelines (based on Jenkins)
- Optimize to support multiple cloud deployment (based on helm charts)
- Introduce ArgoCD for continuous deployment
- Lead system architecture team
 - Set up system architecture team
 - Coordinate new features design and development
 - Coordinate new features end to end delivery
 - Responsible for tracking/analysis/fix/optimize capacity/performance related issues
- Participant QC process optimization
 - Participant QC process, follow up QC KPI
 - Suggestion for QC optimization

2013/01 till now: UAG/SBC/WRG

- Lead a team to design/develop/test/maintain media gateway business modules, IPSec Configuration module, L7 Routing module, Consistent Hashing, Distributed Middleware
 - Lead a team to design/develop/test/maintain MSRP module
 - Design/Develop TCP based MSRP
 - Design/Develop DataChannel based MSRP
 - Lead a team to design/develop/test/maintain RTP module
 - Design/Develop UDP based RTP
 - Design/Develop DataChannel based RTP
 - Design the decouple of slowpath and fastpath
 - Design 6Wind/DPDK and VPP/DPDK based fastpath
 - Design/develop/test/maintain IPSec configuration module
 - Design Linux Kernel based IPSec configuration module
 - Design fastpath based IPSec configuration module
 - Design L7 load balance module
 - Decouple L4 and L7 load balancer
 - Design socket based L7 load balancer
 - Design VPP HostStack based L7 load balancer
 - Design/Develop routing library for L7 load balancer
 - Design consistent hashing module
 - Develop consistent hashing module based on Google Maglev paper
 - Introduce consistent hashing into routing library
 - Design distribution middleware
 - Develop distribution consensus based on simplified Raft
 - Develop dynamic configuration based on the distribution consensus library

2009/08 -- 2012/12: RMS

1. Design/Develop/Test/Maintain Call Control/SIP/CDR module
2. Take the responsible of capacity testing

2009/03 -- 2011/10: TAS/BSG

1. Test/Maintain H248 module
2. Develop/Test/Maintain SIP module
3. Design/Develop/Test/Maintain CDR module

2008/05 -- 2009/08: IMS

1. Develop/Test/Maintain SIP module
2. Design/Develop/Test/Maintain CDR module
3. Take the responsible of capacity testing

Motorola:

2007/10 -- 2008/05: WiMAX Handset application

1. Take the responsible of reviewing design/develop document
2. Design/Develop integrating test cases

2007/04 -- 2007/10: OMA PoC Based PTX Server

1. Design/Develop the architecture and major function of PTX Server
2. Design/Develop a testing client

Motorola (Intern):

2006/02 -- 2006/08: iDEN Handset application

1. Design/Develop/Maintain STRIDE/JScript based automation mobile application testing script

SDR (Shenzheng) Ltd.:

2005/09 -- 2006/02: SIP Server

1. Develop SIP Server which can work for VoIP/IVR/VoiceMail/Conference/...

Working

2021/04 till now:

Mavenir Systems (Shanghai)

Director

2016/09 - 2021/04:

Mavenir Systems (Dallas)

Senior Technical Lead -- Senior Manager -- Director

2008/05 - 2016/09:

Mavenir Systems

Software Engineer -- Senior Software Engineer -- Senior Technical Lead

2007/04 -- 2008/05:

Motorola (China) Ltd. Nanjing Software Branch

Software Engineer

2006/02 -- 2006/08:

Motorola (China) Ltd. Nanjing Software Branch

Intern Software Engineer

2005/09 -- 2006/02:

SDR (Shenzheng) Ltd.

Part-time Software Engineer

Education

2004/09 -- 2007/04:

Nanjing University of Posts and Telecommunications

Computer Application (in Telecommunication) -- Master

2000/09 -- 2004/07:

Nanjing Normal University

Electronic Information Engineering -- Bachelor

Training

2007/11:

ESI & The George Washington University

Software Testing for Better Project Management

2007/07:

Motorola University

Effective Presentations

2007/4 -- 2007/5:

Motorola University

Motorola University ITP/RTP training