

SIDDHARTH TYAGI

San Francisco Bay Area · sid@tyagi.info · (580) 247-8361 · //sid.tyagi.info

WORK EXPERIENCE

Cisco Systems | Lead Engineer | System Software

Milpitas, CA | Jul 2011 - Present

Networking Hardware Disaggregation

- Enabled the open source operating system Azure SONiC on Cisco's new 8000 series of routers.
- Built the plugin infrastructure, critical for integrating this open source SW to run on Cisco's proprietary HW.
- 1/4th of the engineering team that achieved this feat, as opposed to a typical setting of 15-20 engineers working together for 6-8 months.
- This effort has been nominated for the "Pioneer award" for 2020.²

Networking Software Disaggregation

- Enabled Cisco's proprietary Network OS (IOS-XR) on a non-Cisco third party hardware.
- Architected and developed the OS install/upgrade infrastructure and maintained the underlying Linux Kernel SDK.
- This small team of only 5 engineers was directly responsible in winning a \$110 MM customer contract and was instrumental in eventually generating sales of \$200+ MM.
- Awarded Cisco's highest engineering accolade, the "Pioneer Award" for my work on this project.¹

IOS-XR Distributed IPC

- Lead the reliable multicast infrastructure effort on Cisco's IOS-XR Network OS.
- Designed and developed key features that lead to stability and improved overall performance.

IOS-XE Programmability

- One of the lead engineers in developing the industry pioneering programmability infrastructure on Cisco's IOS-XE Network OS.
- This infra. allowed Cisco's customers to integrate their own customized solutions/applications with programmable API.
- It eliminated the cumbersome need to type commands manually/via scripts on a CLI.

IOS-XE Manageability

- Started my career at Cisco with this project.
- This framework provided services like fault, configuration, accounting, performance and security management in a Network OS.
- Responsible for fixing bugs and developing feature enhancements.

Cornerstone OnDemand | Asso. Software Engineer

Los Angeles, CA | Aug 2010 - Jun 2011

- Full stack developer on the Customer Success team.
- Improved engineering productivity by creating tools used by the in-house customer care team.
- Received recognition for going the extra mile by creating these productivity tools in my free time.

EDUCATION

University of Southern California

Los Angeles, CA | Aug 2008 - Jun 2010

MS Electrical Engineering

PROFESSIONAL AWARDS

¹Cisco Pioneer Award

Milpitas, CA | Oct 2019

AKA Oscars at Cisco

²Cisco Pioneer Award

Nominated for 2020

TBD | 2020