

SIDDHARTH TYAGI

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WORK EXPERIENCE

Cisco Systems | Lead Engineer | System Software

Milpitas, CA | Jul 2011 - Present

Networking Hardware Disaggregation

- Enabled the open source OS Azure SONiC on Cisco's new 8000 series of routers.
- Built the plugin infrastructure, crucial 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 10-20 engineers working for 6-8 months.

Networking Software Disaggregation

- Brought up 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.
- Won Cisco's Pioneer Award for my work on this project.

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 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 through tools used by the in-house customer care team.
- Received extremely positive feedback about these tools.

EDUCATION

University of Southern California

Los Angeles, CA | Aug 2008 - Jun 2010

MS Electrical Engineering

PROFESSIONAL AWARDS

Cisco Pioneer Award

Milpitas, CA | Oct 2019

AKA Oscars at Cisco