Siddharth Tyagi

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Work Experience

Cisco Systems | Senior Software/Lead Engineer   Milpitas, CA | Jul 2011 - Present
Networking Hardware Disaggregation

- Enabled 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 20-30 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.
- Lead engineer, designed and developed the OS install/upgrade infrastructure and the underlying Linux SDK.
- 1/5th of the engineering team that was instrumental in winning a \$110 MM customer contract.
- Won the 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 the programmable APIs.
- This eliminated the cumbersome need to type commands manually/via scripts on a command line interface.

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