Report 1: Student Internship Profile

Please complete all fields.

Name:	**Rahul Ethiraj**
Company:	Cisco Systems
Department/Team:	ASA Dev-US
Project Name:	Avatar - Next Generation Firewall – Network Security

1. Describe the company at you are interning:

● Cisco is a software networking company focused on building networking products such as switches, routers, cloud, and security.

● It sells its homegrown products and provide services for them as well.

● Services include starting from configuration of devices (advanced services - AS), troubleshooting network related problems (Technical assistance center - TAC), upgrading/expanding the customer network.

2. Please summarize your responsibilities:

● Design, develop, troubleshoot and debug software programs for enhancements and new products.

● Develop software and tools in support of design, infrastructure and technology platforms, including operating systems, compilers, routers, networks, utilities, databases and Internet-related tools.

● Determine hardware compatibility and/or influences on hardware design.

Note: Above responsibilities are from my company provided offer letter and I work on the above.

3. Describe the team and/or role that you have been assigned:

● My team plays a crucial role in driving next-gen software innovations in security spaces.

● We design and build applications and create solutions to transform how we work, live, learn and play.

● We celebrate the creativity and diversity that fuels our innovation.

● We are dreamers, and we are doers.

4. Describe project(s) you will be undertaking:

I am currently working on developing and testing features for the ASA (Adaptive security appliance) Firewall platform.

Below is a summary of my work:

- Products
• Cisco ASA Enterprise Firewall
• Cisco FTD Next Generation Firewall

- Lab management
• Firewall, Switches, Routers, Terminal Servers
• Cisco UCS Blade servers
• VMware ESX, VMware vCenter

- Tools
• Codenomicon – Fuzz testing

- Python Programing
• Automation scripts

● Cisco Umbrella Branch is a cloud-based security service which provides security by inspecting the DNS traffic and then by examining suspicious HTTP/(S) traffic if required.

● I work on Umbrella connector to test various possible failure and corner cases of this feature on integration with ASA.