
OBJECTIVE

- Secure a summer internship which will involve development.

EDUCATION**Carnegie Mellon University****Pittsburgh, PA**

- Master of Science, Information Networking
- **Selected Coursework:** Introduction to Computer Systems (15-513), Storage Systems (18-746), Fundamentals of Embedded Systems (14-642), Introduction to Information Security (18-746).

University of Pune**Pune, India**

- Bachelor of Engineering, Computer Engineering, May 2014, **GPA: 3.78 / 4.0**
- **Selected Coursework:** Distributed Operating Systems, Computer Networks, Systems Programming and Operating Systems.

EXPERIENCE**Member of Technical Staff****Mojo Networks****December 2014 - July 2016**

- Developed Cloud Scalability Project to improve Mojo's WIPS server multi-tenant architecture gaining performance benefits. Facilitating the harmonious operation of the entire cloud by synchronizing cloud server operations, storage, networking and fault tolerance resulted in **increased scalability by factor of 6**.
- Incorporated Redirector-SGProxy, a product responsible for redirecting Mojo sensors to designated WIPS servers and proxying them if necessary, into cloud architecture.

PROJECTS**• Inline Patch Proxy for Open vSwitch (2014)****University of Pune**

Designed and developed Intrusion Detection and Prevention Project in Open vSwitch to secure the application servers running on the guest operating systems. The algorithm used self-learning mechanism to build Access Control List by identifying vulnerabilities in network packets and maintaining the IP address reputation.

• Dynamic Storage Allocator (2016)**Carnegie Mellon University**

Developed general-purpose dynamic storage allocator implementing malloc, realloc, calloc and free. Algorithm used Segregated-free list and Quick free list to maintain the free blocks, immediate coalescing on free and first-fit algorithm for block allocation. Achieving the required space utilization and throughput, project scored **100/100** on given score scale.

• Interactive command line interpreter (2016)**Carnegie Mellon University**

Developed tiny Linux shell to support job control and I/O redirection. Using process control and signaling, project successfully demonstrated executing programs on user behalf.

• Caching Web Proxy (2016)**Carnegie Mellon University**

Implemented web proxy server to concurrently handle client requests using POSIX Threads. Simpler form of caching was used to fulfill repeated request for web objects.

SKILLS

- C; Python; Shell Scripting; PostgreSQL
- Linux; CentOS
- Hg Mercurial

AWARDS

- **Best Innovative Idea:** Awarded by Quick Heal for **Inline Patch Proxy for Open vSwitch**.
- **PICT Projects Competition:** Awarded First Prize among 100 projects.
- **Paper Presentation at Birla Institute of Technology:** Awarded First Prize in National Level Paper Presentation.