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Sujal Singh

PROJECTS

♦ Mitmproxy

I have made several contributions to mitmproxy, an interactive TLS-capable intercepting HTTP proxy. Notable contributions:

• Fixed a bug that would tremendously slow down download speeds for HTTP/2 connections, yielding a 10x increase for most cases. [#7317]

♦ Skylon

Skylon is a web browser rendering engine written entirely from scratch which implements an HTML parser, a CSS parser and a rendering pipeline.

♦ ACT Fibernet

Rewarded 10k INR for reporting a severe flaw in the implementation of the ISP's intranet firewall rules. Read report

♦ Delhi Police – Cybersecurity Hackathon

Secured first position and a reward of 12k INR for developing a filter that actively prevents any client device from accessing potentially malicious URLs. For proxying traffic, the wireguard mode in mitmproxy was used and filtering logic is injected via a mitmproxy addon. Source Code

♦ 3D Printer

Won second prize in a science fair for building a 3D printer. Currently migrating this printer to a core-xy motion system for which I'm designing the parts from scratch for fun. Source Repository.

♦ Home Server

My sibling and I maintain several home servers: a firewall, two virtualization nodes running proxmox which serve various purposes including network storage, media management, 3D printer firmware and more, and a Raspberry Pi running KVM over IP for remote management. Related Repositories.

SKILLS

- ♦ Languages: Proficient in Python. Familiar with LATEX, HTML/CSS, JavaScript, Bash.
- ♦ Others: Git, Docker, Linux Administration.

EDUCATION

- ♦ University School of Automation & Robotics
 Bachelor of Technology in Industrial Internet of Things.
- ♦ St. Xavier's School, Rohini 2010 2022 Central Board of Secondary Education.