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Sujal Singh

PROJECTS

◇ Mitmproxy

I have made [several contributions](#) to [mitmproxy](#), an interactive TLS-capable intercepting HTTP proxy.

- Fixed a bug that would tremendously slow down download speeds for HTTP/2 connections, yielding a 10x increase for most cases. [[#7317](#)]
- Resolved bugs in HTTP and DNS flow handling, as well as in the terminal and web interfaces.

◇ Mozilla Firefox

- Fixed a UI styling issue in the `about:addons` page. [[#1984872](#)]

◇ Skylon

[Skylon](#) is a web browser rendering engine written entirely from scratch in Python.

- Implemented an HTML parser, a basic CSS parser, and a lightweight rendering pipeline for layout and drawing.

◇ ACT Fibernet Vulnerability Disclosure

Discovered and [reported](#) a firewall misconfiguration in my ISP's internal customer network that allowed cross-customer access to hosts behind a carrier-grade NAT, receiving a ₹10,000 bounty.

◇ Delhi Police – Cybersecurity Hackathon (1st place)

Built a real-time URL-filtering proxy using mitmproxy's WireGuard mode to intercept and block malicious domains. Won first place and a ₹12,000 award in the Delhi Police cybersecurity hackathon.

◇ Home Server

I maintain several home servers, including a firewall, two virtualization nodes running proxmox, and a Raspberry Pi used for KVM-over-IP.

◇ 3D Printer

Built a custom 3D printer from scratch, which I'm currently redesigning to use a core-XY motion system.

SKILLS

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

EDUCATION

- ◇ **University School of Automation & Robotics** *2023 – 2027*
Bachelor of Technology in Industrial Internet of Things.
- ◇ **St. Xavier's School, Rohini** *2010 – 2022*
Central Board of Secondary Education.