

# Sarthak Shah

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## | EXPERIENCE

**MERCARI, INC.** | Security Engineering Intern  
Tokyo, Japan | June 2024 - Present

SKILLS: **CYBERSECURITY, LINUX**

- Working on pushing network logs to the SOAR and creating sensor devices for intrusion detection.

**GOOGLE SUMMER OF CODE** | Intern  
The GNU Project | May 2023 - September 2023

SKILLS: **FUNCTIONAL PROGRAMMING, LINUX**

- One of the 2.2% of applications selected for the Google Summer of Code program.
- Worked on adding an interface for compile-time options to the functional package manager, Guix.
- Implemented all project goals and managed to accomplish most stretch goals.
- [Project Completion Report](#) and [Source Code](#).

**GENENETWORK** | Software Developer  
November 2023 - May 2024

SKILLS: **WEB DEVELOPMENT**

- Worked on building a Genome Browser for [GeneNetwork](#)

**HPC LAB, BITS PILANI** | Assistant System Administrator  
BITS Pilani, Hyderabad | September 2023 - May 2023

SKILLS: **LINUX ADMINISTRATION, SHELL SCRIPTING**

**HPC LAB, BITS PILANI** | Teaching Assistant  
BITS Pilani, Hyderabad | January 2023 - May 2023

SKILLS: **PARALLEL PROGRAMMING**

## | EXTRACURRICULARS

**SOCIETY FOR OPEN SOFTWARE** | President  
BITS Pilani, Hyderabad | June 2022 - Present

SKILLS: **LINUX, CYBERSECURITY**

- Organized and spoke at six workshops that covered git, dual-booting, networking and shell scripting.
- Organized and hosted two CTF competitions.

**JOURNAL CLUB** | Editor-in-chief  
BITS Pilani, Hyderabad | 2022

## | INTERESTS

Metaprogramming

Parallel Programming

Package Management

\*NIX systems and Scripting

Cybersecurity, Networking and Privacy

## | SKILLS

**FUNCTIONAL PROGRAMMING**

Scheme • Clojure • OCaml

**GNU/LINUX**

Shell Scripting • HPC Administration

**NETWORKING AND CYBERSECURITY**

Cryptography • Network Forensics • CTFs

**PARALLEL PROGRAMMING**

FORTRAN • CUDA

**SYSTEMS PROGRAMMING**

C/C++ • Rust • Go • Python

**WEB DEVELOPMENT**

JavaScript • WASM • PHP

**NATURAL LANGUAGES**

English • Japanese • Sanskrit • Hindi

## | EDUCATION

**BITS, PILANI**

MSc. Mathematics (Integrated, Hons.)  
Minor in Computing and Intelligence  
Dec 2021 - Present

## | LINKS

Github: <https://github.com/cel7t>

Linkedin:

<https://linkedin.com/in/sarthak-shah-sos>

Blog: <https://blog.lispy.tech>

Website: <https://lispy.tech>

Mastodon: <https://emacs.ch/@cel7t>

## | ACHIEVEMENTS

**NSM GPU HACKATHON PARTICIPANT**

Supercomputing Hackathon organized by Nvidia  
IIT Bombay, 2022

**WINNER, IIT GOA'S CEPHEUS CTF**  
2023

**RUNNER UP, ENIGMA** IIT Hyderabad,  
2023

**RANK 3, NCFE-NFLAT** 2017-2018

**GOLD MEDALIST, QUEEN'S  
COMMONWEALTH ESSAY WRITING  
COMPETITION** 2015