

| EXPERIENCE

MERCARI, INC. | Security Engineering Intern
Tokyo, Japan | May 2024 - July 2024

SKILLS: **CYBERSECURITY, LINUX, GOOGLE CLOUD**

- Worked on a project that improved corporate network security as a part of the Threat Detection & Response team.
- Wrote and deployed a program for sensing network scans and analyzing router logs.
- Wrote log routers and BigQuery views for the same and deployed them to Google Cloud PubSub.

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.
- [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 2024

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

| LINKS

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

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

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

| SKILLS

FUNCTIONAL PROGRAMMING

Scheme • Clojure • OCaml

GNU/LINUX

Shell Scripting • HPC Administration

NETWORKING AND CYBERSECURITY

Cryptography • Network Forensics • CTFs • Google Cloud Platform

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

| INTERESTS

Metaprogramming

Parallel Programming

Package Management

*NIX systems and Scripting

Cybersecurity, Networking and Privacy

| 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