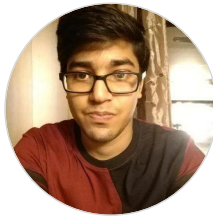


Swaraj Hota

A curious soul, on a quest to explore and understand the depths of Computer Science. Coder by habit and researcher from heart. Love to tinker with hardware from the software perspective.



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github.com/Swaraj1998 🐙

EDUCATION

B.Tech in Information Technology IIIT Bhubaneswar

07/2017 - Present

CGPA: 8.43

Class XII CBSE

Vikash Residential School, Bargarh

06/2016 - 03/2017

Percentage: 89%

Class X CBSE

Vikash Residential School, Bargarh

06/2014 - 03/2015

CGPA: 10

PERSONAL PROJECTS

Intel 8080 Emulator [↗](#)

- A full Intel 8080 emulator written in C, along with emulation of the game "Space Invaders" with its arcade machine.

TermOS [↗](#)

- A simple x86 based hobby OS made from scratch, written in C. The OS currently features a custom bootloader, an inode based file system, kernel's own libc, necessary drivers (Keyboard, Display, IDE), FIFO task scheduler, and a simple shell to execute commands.

Chat App using E2E encryption [↗](#)

- A console based Java chat application. The messages are End-to-End encrypted using Asymmetric Encryption. Key exchange and key storage functionalities are added.

TweetParse [↗](#)

- An android app that fetches tweets on bitcoins from API, parses and displays the data implementing RecyclerView + CardView + SQLiteDatabase.

WORK EXPERIENCE

Google Summer of Code 2020 participant with Apertus Association

Apertus Association [↗](#)

05/2020 - 08/2020

Linux Kernel Driver for Lattice MachXO2 programming/debugging

- A Linux Kernel Driver for programming/debugging the Lattice MachXO2 FPGAs (used as routing fabrics) in AXIOM Beta Open Source Camera. [↗](#)

Google Summer of Code 2019 participant with FFmpeg

FFmpeg [↗](#)

05/2019 - 08/2019

HEIF Support

- Worked on the support for High Efficiency Image Format (HEIF) Images in FFmpeg. [↗](#)

SKILLS

C

C++

Java

Android App Development

Python

x86 asm

RISC-V asm

Bash

Linux

Linux Kernel Development

Embedded Software

ACHIEVEMENTS

Qualified for ACM ICPC Onsite Contest 2018 (Kolkata-Kanpur and Amritapuri) for Competitive Programming

CERTIFICATES

Google Summer of Code 2020 Completion [↗](#)

Google Summer of Code 2019 Completion [↗](#)

ACM ICPC Onsite Contest 2018 [↗](#)

RCPL Machine Learning Workshop - 2018 [↗](#)

Hack2Explore Ethical Hacking Workshop - 2017 [↗](#)

RoboTech Labs ARM Processor Workshop - 2017 [↗](#)

LANGUAGES

English

Native or Bilingual Proficiency

Hindi

Native or Bilingual Proficiency

Odia

Native or Bilingual Proficiency

INTERESTS

Reading Books

Playing Guitar

Chess

Coding

Science and Technology

Teaching

Watching Talks and Lectures

Exploring New Interests