Swaraj Hota

A curious soul, on a quest to explore and learn the depths of Computer Science. Coder by habit and researcher from heart. Interested in low level programming projects and core computer science research.



swarajhota353@gmail.com 🔀

+919777892634

Bhubaneswar, India

github.com/Swaraj1998 (7)

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, SFS file system support, kernel's own libc, necessary drivers (Keyboard, Display, IDE), FIFO task scheduler, and a simple shell to execute commands.

 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 Z

 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 - Present

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 Main Board. ☑*

Google Summer of Code 2019 participant with FFmpeg

05/2019 - 08/2019

HEIF Support

 Worked on the support for High Efficiency Image Format (HEIF) Images in FFmpeg.

SKILLS



ACHIEVEMENTS

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

CERTIFICATES

ACM ICPC Onsite Contest 2018 Z

RCPL Machine Learning Workshop - 2018

Hack2Explore Ethical Hacking Workshop - 2017 ☑

RoboTech Labs ARM Processor Workshop - 2017 Z

LANGUAGES

English

Native or Bilingual Proficiency

Hindi

Native or Bilingual Proficiency

Odia

Native or Bilingual Proficiency

INTERESTS

Reading Books	Playing Guita	r Chess	Coding
Science and Technology Teaching			
Watching Talks and Lectures Exploring New Interests			