

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.



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EDUCATION

B.Tech in Information Technology IIIT Bhubaneswar

07/2017 – Present

CGPA - 8.57

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), 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.

AuctionApp

- An android app for conducting auctions, made for a college competition, using Firebase. Users can bid on different products, or post their own product for auction.

WORK EXPERIENCE

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.
- Also added support for IFV CCTV format in FFmpeg as qualification task.

SKILLS

C

C++

Java

Android App Development

Python

x86 asm

RISC-V asm

Scheme

Bash

Linux

Systems Programming

Information Security

Deep Learning

CNN

Image/Video Compression

ACHIEVEMENTS

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

CERTIFICATES

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 and Research Papers

Playing Guitar

Sketching

Chess

Coding

Science and Technology

Thinking and Observing

Teaching

Watching Talks and Lectures

Exploring New Interests