

# PRITAM HALDER

Aspiring Software Developer

I am an aspiring software developer specialising in frontend and backend web technologies. I love to dabble with new and upcoming web technologies and provide solutions to real world problems. Currently, I am learning Go and its design principles with gRPC framework and GraphQL technologies.

"The most damaging phrase in the language is - it's always been done this way"

## SOCIAL LINKS

Portfolio : [pritamh.dev](https://pritamh.dev)  
Github : [github.com/poseidon-code](https://github.com/poseidon-code)  
LinkedIn : [linkedin.com/pritamhalder](https://linkedin.com/pritamhalder)

## TECHNICAL SKILLS

### Programming Languages

Python / Go / JavaScript / C / C++ / Core Java

### Frameworks

NextJs / ReactJs / NodeJs / Express / Selenium / Redux / GraphQL

### Tools

Git / Github / Visual Studio Code / Netlify / Heroku / Nginx / Docker

### Technologies

HTML5 / CSS3 / SASS / MySQL / MongoDB

## COURSE WORK

### Post Graduation

Advanced Computer Architecture  
Advanced Database Management Systems  
Advanced Data Structures and Algorithms  
Advanced Operating Systems  
Computer Networks  
Object Oriented Programming  
Software Engineering  
Compiler Design  
Artificial Intelligence  
Cloud Computing  
Mobile Computing  
Graph Theory

### Dissertation Project

Automatic CAPTCHA verification solver for visually impaired users on the web. (Pattern Recognition & Systems Design)

## ACHIEVEMENTS

2<sup>nd</sup> (2/1270) : StackHack 2.0 (Hackathon)  
5<sup>th</sup> (5/2818) : HackCOVID 2.0 (Hackathon)

## EDUCATION

### WEST BENGAL STATE UNIVERSITY (WBSU)

MSc. Computer Science (ongoing) | 2021 - 2023  
Graduating - August 2023 | CGPA : **TBD**

### ACHARYA PRAFULLA CHANDRA COLLEGE (WBSU)

BSc. Computer Science (Honors) | 2018 - 2021  
Graduated - August 2021 | CGPA : **8.83**

### KENDRIYA VIDYALAYA (CBSE)

PCM with Computer Science  
Graduated - May 2018 | Percentage : **72.3%**

## EXPERIENCE

### HackCOVID 2.0 (Hackathon) | May 2021 - July 2021

Organisation - HackerEarth | Remote

Contest: [hackerearth.com/hackcovid2](https://hackerearth.com/hackcovid2)

An application that allows infected individuals/families and their caregivers to easily avail themselves of multiple services/offering by volunteers in their vicinity or across the country.

### BACKEND | JavaScript - Node - Express - MongoDB - JWT - RazorPay

- Designed the entire authentication system using JWT which reduced the response time of a authorised request by 50%.
- Implemented simple deployment design which reduces the overall complexity of connection between two servers using Netlify and Heroku.

### FRONTEND | JavaScript - React - Sass

- Laid out the initial design of page routing and data flow through components making the team prepared for implementation.
- Designed, fixed and ported website styles using Sass providing a structured view of implemented styles helping with better readability.

### cppsecrets.com (Internship) | October 2019 - December 2019

Designation - C++ Developer | Remote

Profile: [cppsecrets.com/pritamhalder](https://cppsecrets.com/pritamhalder)

- Documented and implemented C++ Boost libraries, more specifically Core libraries, adding to the largest documentation of C++ libraries.
- Accumulating over 4000+ views on all the articles present on the site authored by myself.

## PROJECTS

### Portfolio | NextJs - Strapi CMS - GraphQL - MongoDB - Sass

Website : [pritamh.dev](https://pritamh.dev)

Personal portfolio website designed from scratch using NextJs and Strapi CMS to showcase my skills and projects for potential clients.

- Made using Next and the data is served using Strapi CMS using MongoDB as database and GraphQL for data queries.
- Used a very colorful design style to make the site unique and yet simple, using SASS for convenience of generating multiple classes with random colors programmatically.
- Used Next's API route handling for sending emails from the site.
- Complex data structuring and modification for fetched data using basic JavaScript, reducing dependencies on 3rd-party libraries.

## INTERESTS

---

Painting / Graphics Design / Programming /  
Gaming Enthusiast / Music / Cars / Linux Ricing /  
Reading / Home Server Geek / Virtual Machines  
Nerd / Wallpapers Hoarder

## SOFT SKILLS

---

- Efficient in working and adapting to new locations and with new teams.
- Love to teach and help new teammates made me confident with my skills.
- Good work culture and trying my best to provide it, is my everyday goal.
- Technical leadership and dedication to my work is what I am always looking forward to in my journey.

## Identicon | Go

*Github* : [poseidon-code/identicon](https://github.com/poseidon-code/identicon)

*Package* : [poseidon-code/godenticon](https://github.com/poseidon-code/godenticon)

Cross-platform CLI program to generate identicons based on some string passed as argument and save as a PNG image. Basically, an unique image generator for identicons.

- Used only Go's unpar builtin libraries throughout the entire program giving it literally Zero dependency on 3rd-party code, using Go's builtin image library to generate crisp PNG images with low file size.
- Used Go's platform independent cross compiling capability to build and distribute executable for different operating system architectures.
- Intuitive command line interface for ease of use and easy to understand usage documentation, tried to make a standard for generating identicons from hashes.

## ytmp3-dl | Python - YoutubeDL

*Github* : [poseidon-code/ytmp3-dl](https://github.com/poseidon-code/ytmp3-dl)

A python script that uses yt-dlp to download the audio from any YouTube video/audio link concurrently and converts it to .mp3 format of high quality.

- Made using Python and yt-dlp python library for downloading YouTube audio from videos and converting them to .mp3 using ffmpeg.
- Parsed and handled command line options. Handled a simple terminal printing design. Packaged the complete software as an usable binary for easier usage.