

# DAKSH PALERIA

🌐 dakshpaleria | 📞 (+91) 7016397736 | ✉ dpalera@gmail.com | 🌐 dakshp07 | 🌐 dakshp07

## EDUCATION

### Vellore Institute of Technology (VIT)

B.E. Computer Science and Engineering

Vellore, Tamil Nadu

July 2019 – Expected July. 2023

## TECHNICAL SKILLS

<b>Languages:</b>	Python   C++   Javascript   Java   SQL   HTML/CSS   PHP   Dart   Solidity
<b>Lib/Frameworks:</b>	Flutter   Flask   jQuery
<b>Platforms:</b>	Linux   Web   Windows   Heroku
<b>Tools:</b>	Git on GitHub/GitLab   MySQL   Firebase   Docker   Cloud Databases

## EXPERIENCE

### Summer of Bitcoin 2022 – bcoin

Remote

Summer Intern

May 2022 – Present

- Developed the addition of Taproot validation to bcoin node and wallet using JavaScript.
- Analyzed the BIPs, implemented the changes, tested the changes using Mocha, writing new tests. Used Bitcoin core as a reference for implementation.
- Led the complete revamp of bcoin node, and wallet by implementing Taproot for providing more security to the users.

### Google Summer of Code 2021 – CDLI

Remote

Open Source Contributor

May 2021 – Sept 2021

- Developed a dashboard that can visualize the admin with all digital assets using CakePHP, HTML, CSS, Docker, Python, and MariaDB.
- Built a Python script to replace the manual methods of updating the Database. Added Docker support to remove the hardware redundancies.
- Reduced the manual work by 50% by adding CRON Jobs to update the database on daily basis. Built optimized SQL Queries to reduce search time by 20%.

### Cuneiform Digital Library Initiative (CDLI)

Remote

Open Source Contributor and Maintainer

February 2021 - Present

- Built a new functionality for the "Community" Section using CakePHP, HTML, SQL and CSS.
- Led the revamp of the backend of the framework by developing optimized queries and reducing the search time by 10%.

## PROJECTS

### Digital Library Management: GSoc '21 📄 [Cake PHP, Docker, Maria DB, Python]

July 2021

- Developed a dashboard that can visualize the admin with all digital assets using CakePHP, HTML, CSS, Docker, Python, and MariaDB.
- Built the functionality of adding roles. Managing the roles, giving adequate permissions for adding, deleting, and editing any visual asset.

### Mobile Application for Team Members, and Board 📄 [Flutter, Firebase]

February 2020

- Developed a flutter application for iOS App Store. Built the app to allow login using Google, Email, or GitHub.
- Developed the functionality to set up new tasks, schedule meetings, and also handled role management.

### Mobile Application to predict user's disease 📄 [Flutter, Firebase, Flask, TensorFlow]

October 2020

- Built a mobile application as a dashboard to predict the disease user is suffering from using Flutter, Firebase, Flask, and TensorFlow which serves as the backend for prediction.
- Developed User-Friendly UI, analysis of historical data to display charts in order for the user to track their lifestyle, and improvements.

### Mobile Application for maintaining the COVID Protocols 📄 [Flutter, Firebase, Flask, CNN]

March 2020

- Built a mobile application that allows the users to track the implementation of the COVID Protocols in public places using Flutter, Firebase, Flask, and CNN which serves as the backend for analyzing the data.
- Developed heat maps to locate the prone areas that are not following the protocols. Built the alert system that sends out mail to the admins, and concerned authorities.

## VOLUNTEER EXPERIENCE

<b>Coordinator HackOff v3.0</b>	A 36 hour long Hackathon conducted by IET-VIT and MLH with over 3000+ participants.
<b>Mentor at TFD</b>	Mentor juniors at TFD for app dev domain, open source.
<b>Mentor at SWoC</b>	Mentor participants at SWoC for app dev domain, open source.