

# DAKSH PALERIA

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## EDUCATION

### Vellore Institute of Technology (VIT)

B.E. Computer Science and Engineering

Vellore, Tamil Nadu

July 2019 – Expected July. 2023

## EXPERIENCE

### Summer of Bitcoin 2022 – bcoin

Remote

Student Software Developer

May 2022 – Present

- bcoin is an alternative implementation of the Bitcoin protocol, written in JavaScript. Working on adding Taproot validation to bcoin node and wallet.
- Reviewing the BIPs, implementing the changes, testing the changes, writing new tests. Used Bitcoin core as a reference for implementation.

### Google Summer of Code 2021 – CDLI

Remote

Student Software Developer

May 2021 – Sept 2021

- Worked on an project about preparing a dashboard that can show an admin the visual assets of the digital library. This will help the researchers, professors in getting more control over the visual assets.
- Wrote a whole script in Python, works with CRON Jobs to update on daily basis to update Database. Provided Docker support for script and used CakePHP, MariaDB for frontend and backend. Worked on optimising the SQL Queries as well.

### Cuneiform Digital Library Initiative (CDLI)

Remote

Open Source Contributor

February 2021 - Present

- The CDLI Framework is primarily used by scholars and students, but with growing numbers of informal learners. Currently I'm the maintainer for the mobile application developed using Flutter.
- Worked on enhancing the current framework of CDLI by working on its backend to enhance the SQL Queries, improve its indexing and increase the overall search result time duration by 5%.

## PROJECTS & ACHIEVEMENTS

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

July 2021

- Preparing the dashboard for admins, super-admins to manage images. Adding, editing, deleting about the artifact images and maintain the public visibility of images.
- Running the python script on daily basis to update the database.

### IET-VIT Mobile Application 📄 [Flutter, Firebase]

February 2020

- A flutter app developed to support iOS for the existing android app, to go live on app store.
- Login with E-Mail, Google or GitHub, update members with tasks, set up meetings and task for all members.

### Liveline: Top 5 in VIT Hack 2020 📄 [Flutter, Firebase, Flask, TensorFlow]

October 2020

- Predicting about the disease the user is suffering from, used ML Model as an backend.

### The Patrollers App 📄 [Flutter, Firebase, Flask, CNN]

March 2020

- It is a system that we have come up with to suit the new requirements for a safe social gathering.
- Implemented machine learning models using flask and connecting them with frontend to make sure that social distancing is being followed.

## RELEVANT 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

## 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.