DAKSH PALERIA

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EDUCATION

Vellore Institute of Technology (VIT)   Vellore, Tamil Nadu
B.E. Computer Science and Engineering   *July 2019 – Expected July. 2023*

TECHNICAL SKILLS

Languages:	Python	C++| Javascript	Java	SQL	HTML/CSS	PHP	Dart	Solidity
Lib/Frameworks:	Flutter	Flask	jQuery
Platforms:	Linux	Web	Windows	Heroku
Tools:	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 BIP340, 341, and 342. 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.
- Created 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. Refactored the SQL Queries to optimize them which reduced search time by 20%.

Cuneiform Digital Library Initiative (CDLI)   Remote
Open Source Contributor and Maintainer   *February 2021 - Present*
- Integrated a new functionality for the "Community" Section using CakePHP, HTML, SQL and CSS.
- Refactored 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*
- Created, Integrated a dashboard that can help admins all the digital assets related to an artifact using CakePHP, HTML, Bootstrap, Docker, Python, and MariaDB.
- Configured 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*
- Led the development of a flutter application for iOS App Store.
- 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*
- Created 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.
- Collaborated with team members in designing, deploying a 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.
- Created 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

Coordinator HackOff v3.0	A 36 hour long Hackathon conducted by IET-VIT and MLH with over 3000+ participants.
Mentor at TFD	Mentored 20+ juniors at TFD for app dev domain, and open source.
Mentor at SWoC	Mentored 100+ participants at SWoC for app dev domain, blockchain domain, and open source.