DAKSH PALERIA

🌐 dakshpaleria | 📞 (+91) 7016397736 | ✉ dpaleria@gmail.com | in dakshp07 | ⚙ dakshp07

EXPERIENCE

Summer of Bitcoin 2022 – bcoin   **May 2022–Sept2022**
Software Developer Intern   *Remote*
- ○ **Developed** the addition of **Taproot (BIP 340, 341, and 342)** validation to the node and wallet using JavaScript.
- ○ **Analyzed** the 3 major Bitcoin Improvement Proposals (BIPs). Reviewed the changes, tested the changes using JS scripts, writing new tests.
- ○ Led the complete **revamp** of the node and wallet by implementing all the necessary changes in the **3 BIPs**.

Google Summer of Code 2021 – CDLI   **May 2021–Sept 2021**
Google Summer of Code 2021 Software Developer   *Remote*
- ○ **Developed** a dashboard that can visualize the admin with more than **20+ digital assets** for **100k+ artifacts** using **Cake PHP, and MariaDB**.
- ○ Created a **Python script** to replace the manual methods of updating the database for more than **150K assets**. Added **Docker** support to **remove hardware redundancy**.
- ○ **Reduced the manual work by 50%** by automating the process to update the database on a **daily basis**.

Cuneiform Digital Library Initiative (CDLI)   **Dec 2020–Apr 2021**
Open Source Contributor and Maintainer   *Remote*
- ○ **Designed, and integrated** a new functionality for the "Community" Section using **Cake PHP, HTML, and CSS**. **Released in v0.1** on **July 2021** for internal use.
- ○ **Refactored** the entire backend by leading a team of 5 contributors to the framework by developing optimized queries and **reducing the search time by 20%**.

PROJECTS

Web DApp for Decentralized Autonomous Organization (DAO) ⧉ **[ReactJS, Solidity, Hardhat, CSS]**
- ○ **Implemented** a dashboard that can show the **DAO Members** a **list of all proposals, options to vote on the listed proposals, and the total number of tokens with each member**.
- ○ **Deployed an ERC-20 (Ethereum Request for Comment) Governance Token; an ERC-1155 Non-Fungible Token (NFT), and a treasury on Rinkeby** that will allow members to have a **say** in the **organization**.

Mobile Application to predict user's disease ⧉ **[Flutter, Firebase, Flask, TensorFlow]**
- ○ **Created** a mobile application from scratch in collaboration with **three members** that will work as a dashboard to **predict the disease** a user is suffering from.
- ○ **Achieved** an accuracy of **93% with the model** trained on the data provided by the sponsors.

Mobile Application for maintaining the COVID Protocols ⧉ **[Flutter, Firebase, Flask, CNN]**
- ○ **Built a mobile application** that allows the users to track the implementation of the **COVID Protocols** in public places.
- ○ **Achieved** an accuracy of **97% with the model** trained on the data provided by the sponsors.

TECHNICAL SKILLS

Languages: Python | C++| JavaScript | Java | SQL | HTML/CSS | PHP | Dart | Solidity
Frameworks: Flutter | Flask | jQuery | ReactJS | EtherJS | HardHat
Tools: Git on GitHub/GitLab | SQL | Firebase | Docker | Cloud Databases

EDUCATION

Vellore Institute of Technology   Vellore, Tamil Nadu
Bachelor of Technology in Computer Science and Engineering   ***Jul 2019-Jul 2023***

Relevant Coursework: Data Structures and Algorithms, Object Oriented Design, Operating Systems, Database Management Systems, Artificial Intelligence, Natural Language Processing.

VOLUNTEER EXPERIENCE

Coordinator at a 36-hour-long **hackathon** with over **3000+ participants**.
Mentored 20+ juniors at student chapter **Team Fourth Dimension (TFD)** for **app dev domain**.
Mentored 100+ participants at an open-source program **Script Winter of Code** for the **app dev domain**.