

DAKSH PALERIA

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EXPERIENCE

Summer of Bitcoin 2022 – bcoin

May 2022 – Present

Software Developer Intern

Remote

- **Developed** the addition of **Taproot (BIP 340, 341, and 342)** validation to bcoin 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 bcoin 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 redundancies.
- **Reduced the manual work by 50%** by adding CRON Jobs to update the database on 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, SQL, 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

Digital Library Management [Cake PHP, Docker, Maria DB, Python]

- **Designed, Implemented, and Integrated** a dashboard that can help admins manage all the digital assets related to an artifact and scaled the database to handle **100K+ artifacts**.
- **Configured** the functionality of adding around **10+ different types of roles** with different levels of access management.

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

HackOff v3.0 Coordinator at 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.