Vaibhav Chanana

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EDUCATION

JAYPEE INSITUTE OF INFORMATION TECHNOLOGY
B.Tech in Computer Science
CGPA: 7.8; Batch of 2021

RYAN INTERNATIONAL SCHOOL
12th, 2017
Vasant Kunj, New Delhi

ABOUT ME

I love all levels of computer science. Other than tinkering with technology I am interested in maths and physics. On a personal level I am a reserved human who is inclined to choose the path less travelled. My hobbies include watching thriller movies and listening to hip-hop music.

COURSEWORK

UNDERGRADUATE
Software Engineering
Operating Systems
Database Systems and Web
Blockchain Technology
Data Structures
Algorithms and Problem Solving
Computer Organisation and Architecture
Computer Networks

SKILLS

PROGRAMMING

Languages

C/C++: ●●●●●
Javascript: ●●●●○
Python: ●●●○○
Java: ●●○○○

Tools and Technologies

Embedded C: ●●●●●
Arduino: ●●●●●
Git: ●●●●○
Java Card: ●●●●○
AWS: ●●●○○
Firebase: ●●●○○
React: ●●○○○

Other Skills

Cryptography: ●●●○○
Bitcoin: ●●●○○
DApps: ●●○○○

EXPERIENCE

CYPHEROCK | Software Developer & Core Team Member
Feb 2019 – June 2020 | New Delhi, India

Summary

- A ConsenSys backed startup developing a hardware wallet to secure cryptocurrencies
- Built a prototype for the device in the early stages of the startup. The prototype helped the company in getting selected for the ConsenSys accelerator program.
- Part of the hardware team - The team was responsible for coding the whole firmware of the device.

Significant Contributions

- Built a prototype using Arduino which included a NFC Sensor, an OLED screen and a joystick.
- Researched for the suitable technology stack in the early stages of the startup. There were many iterations before settling on the final stack.
- Designed and coded the complete UI for the device using an open source library (LittlevGL) written in C. The UI was to be shown on a 0.96" screen using a micro-controller.
- Wrote a library for NFC communication between the device and Java Card.
- Wrote about half of the controller module. The controller was the biggest of all the modules in the firmware. It's purpose was to switch screens based on user input.

BITS PILANI | Research Intern
June 2020 – Aug 2020 | Pilani, Rajasthan

- Interned under Prof. Vinay Chamola (Senior Member, IEEE)
- Research was conducted on the topic of Quantum Computers.
- Wrote a survey paper on the topic of Applications of quantum computers and Post quantum cryptography
- Wrote a magazine paper on the topic of Recent advances in quantum computing

PROJECTS

IOT BASED DOOR BELL BACKED BY AWS SERVERLESS ARCHITECTURE
Electron.js, Raspberry Pi, REST API's, AWS Kinesis

A door bell made out of Raspberry Pi. It streams to the cloud using AWS Kinsesis. It was accompanied by an Electron app and Android app. The users could login into the Android app to watch the live stream. An admin could control the permissions to the stream using the Electron app. Worked with **Prakhar Parashari** and **Devesh Sharma**.

DECENTRALIZED CROWDFUNDING APP
Ethereum Smart Contract, Solidity, React.js, Web3.js

A platform for entrepreneurs to post their projects and users to fund them. The concept is based on kickstarter but is completely decentralized.
Each project is stored as a smart contract on the ethereum blockchain. When the goal is reached for funding the project the entrepreneur can claim the collected funds. **Demo: https://youtu.be/zStd6wZRpq0**