A REPORT
ON

PRODUCT & ECOSYSTEM DEVELOPMENT

LEAD INTERN

Submitted by,

Mr. Mohammed Faizan - 20211CCS0041

Under the guidance of,

Dr. N Syed Siraj Ahmed

in partial fulfillment for the award of the degree of

BACHELOR OF TECHNOLOGY

IN

COMPUTER SCIENCE AND ENGINEERING (CYBER SECURITY)

At

PRESIDENCY UNIVERSITY

BENGALURU

MAY 2025

PRESIDENCY UNIVERSITY

PRESIDENCY SCHOOL OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE

This is to certify that the Internship report **"PRODUCT AND ECOSYSTEM DEVELOPMENT LEAD INTERN"** being submitted by **"MOHAMMED FAIZAN"** bearing roll number **"20211CCS0041"** in partial fulfillment of the requirement for the award of the degree of Bachelor of Technology in **Computer Science and Engineering (Cyber Security)** is a bonafide work carried out under my supervision.

Dr. N SYED SIRAJ AHMED
Associate Professor
PSIS
Presidency University

Dr. S. P ANANDRAJ
Professor & HoD
PSCS
Presidency University

Dr. MYDHILI NAIR
Associate Dean
PSCS
Presidency University

Dr. SAMEERUDDIN KHAN
Pro-Vice Chancellor - Engineering
Dean – PSCS / PSIS
Presidency University

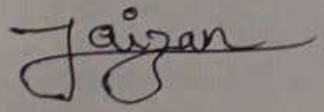
PRESIDENCY UNIVERSITY

PRESIDENCY SCHOOL OF COMPUTER SCIENCE AND ENGINEERING

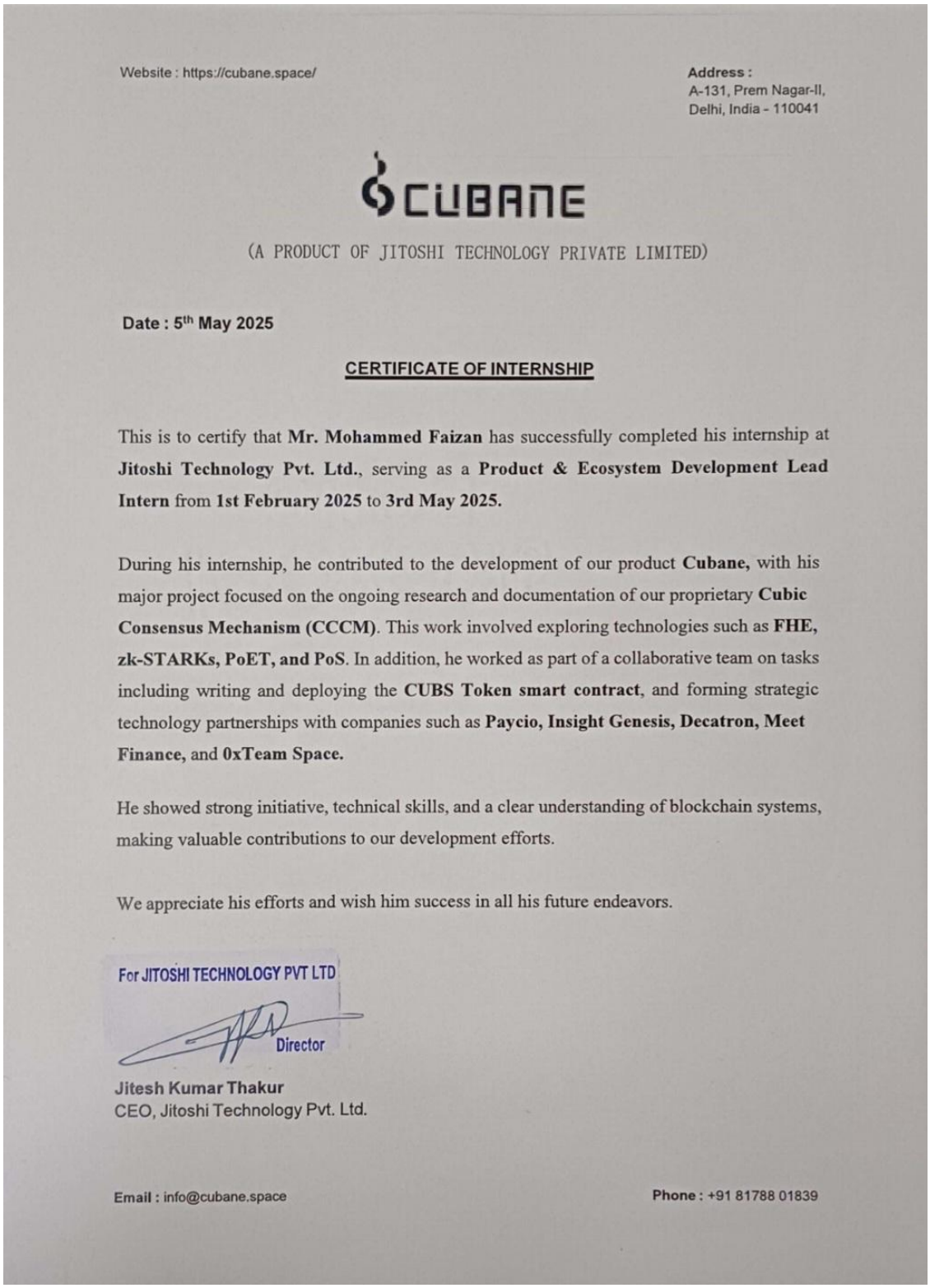
DECLARATION

I hereby declare that the work, which is being presented in the report entitled **"PRODUCT & ECOSYSTEM DEVELOPMENT LEAD"** in partial fulfillment for the award of Degree of **Bachelor of Technology** in **Computer Science and Engineering (Cyber Security)**, is a record of my own investigations carried under the guidance of **DR. N SYED SIRAJ AHMED, Associate Professor, Presidency School of Computer Science and Engineering, Presidency University, Bengaluru.**

I have not submitted the matter presented in this report anywhere for the award of any other Degree.

MOHAMMED FAIZAN 20211CCS0041 	**Name, Roll No and Signature of the Student**

INTERNSHIP COMPLETION CERTIFICATE



Website : https://cubane.space/

Address :
A-131, Prem Nagar-II,
Delhi, India - 110041

CUBANE

(A PRODUCT OF JITOSHI TECHNOLOGY PRIVATE LIMITED)

Date : 5th May 2025

CERTIFICATE OF INTERNSHIP

This is to certify that **Mr. Mohammed Faizan** has successfully completed his internship at **Jitoshi Technology Pvt. Ltd.**, serving as a **Product & Ecosystem Development Lead Intern** from **1st February 2025** to **3rd May 2025.**

During his internship, he contributed to the development of our product **Cubane,** with his major project focused on the ongoing research and documentation of our proprietary **Cubic Consensus Mechanism (CCCM)**. This work involved exploring technologies such as **FHE, zk-STARKs, PoET, and PoS**. In addition, he worked as part of a collaborative team on tasks including writing and deploying the **CUBS Token smart contract**, and forming strategic technology partnerships with companies such as **Paycio, Insight Genesis, Decatron, Meet Finance,** and **0xTeam Space.**

He showed strong initiative, technical skills, and a clear understanding of blockchain systems, making valuable contributions to our development efforts.

We appreciate his efforts and wish him success in all his future endeavors.

For JITOSHI TECHNOLOGY PVT LTD

Director

Jitesh Kumar Thakur
CEO, Jitoshi Technology Pvt. Ltd.

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ABSTRACT

This internship report provides a comprehensive overview of the three-month internship undertaken at **Jitoshi Technology Private Limited**, focusing on its flagship blockchain project, **Cubane**. As a Product and Ecosystem Development Intern, I was actively involved in understanding and documenting the **Cubane Cubic Consensus Mechanism (CCCM)**—a unique, modular Layer-1 blockchain protocol designed to offer high levels of scalability, privacy, and decentralization. Throughout my internship, I worked on a number of areas like learning about the technical architecture of CCCM, becoming familiar with privacy-focused tools like **zkSNARKs** and **zkSTARKs**, and contributing to system enhancements. I was also part of a collaborative team which worked on tasks such as writing and deployment of CUBS Token smart contract, and forming strategic partnerships with tech companies.

The report I worked on looks at how Cubane's consensus mechanism uses zero-knowledge proofs and a step by step process starting with initiation, then proof generation, validation, and finally compression to create a modern blockchain setup tailored for SaaS and enterprise needs. I gained knowledge about the design of transactions, node voting, block validation utilising timestamps, and the application of cryptographic proofs by examining the literature, various methodologies including previous research of Cubane

This internship helped me connect what I've learned in university with real-world applications. It gave me hands-on experience with blockchain, cryptographic systems, and a learning of working with a team on complex projects.