

SHAMYA HARIA

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EDUCATION

Vellore Institute of Technology, Vellore

B.Tech in Computer Science Engineering (specialization: Blockchain Technology)

2021-2025

WORK EXPERIENCE

- Tech Mahindra

Aug - Sept 2023

Intern, Full Stack Developer

Developed and deployed an innovative web-based application to efficiently manage and streamline services provided to multiple clients. The project leveraged the MERN stack to deliver full-stack solutions, integrating real-time data configuration to eliminate redundancies and ensure accurate tracking. Advanced encryption techniques and API key integration were implemented to guarantee secure data transfer and uphold data integrity.
- College Tips

May - June 2023

Intern, Marketing and Graphic Designer

Revamped the company's visual identity by creating innovative graphic designs and dynamic social media graphics, elevating its online presence and engagement. Leveraging tools like Adobe Creative Suite, the project combined marketing insights with advanced design principles to craft compelling advertising content and deliver impactful branding solutions across diverse platforms.

PAPERS AND PUBLICATIONS

- Detection and Prediction of Fabric Durability

Nov 2024

Detection and Prediction of Fabric Durability focuses on utilizing artificial intelligence and machine learning to accurately predict fabric tensile strength and durability. The project employs image processing and regression models alongside metrics such as Structural Similarity Index, Peak Signal-to-Noise Ratio, and Mean Squared Error to address challenges in analyzing fabric properties. This work introduces efficient methodologies for fabric durability prediction, improving both precision and reliability in the analysis process.

PROJECTS

- BioMed Chat Bot

Created an AI-powered symptom checker chatbot using a PyTorch implementation of BioBERT, achieving an F1 score of 0.91. Diagnoses ailments, recommends treatments, and provides information from doctors and pharmacies based on user input queries. Leveraged BioBERT to accurately extract medical entities and intent from queries, ensuring personalized and reliable responses.
- Formify

Developed an iOS app for real-time exercise form analysis using Apple's Vision Framework. Integrated MoveNet keypoint detection with a custom action classification model to recognize exercises and deliver instant, personalized feedback on user technique. Engineered on-device processing for privacy and performance, enabling AI-powered fitness coaching directly from the user's camera.
- Decentralized Funding

A Web3-based crowdfunding app that enables decentralized fundraising using Thirdweb. Built with Foundry (Forge) for smart contract development and deployment. This app allows users to support causes and make seamless interactions through blockchain technology, prioritizing transparency, security, and ease of use for both project creators and donors.
- Harvest Hub

Harvest Hub is an innovative e-commerce platform designed exclusively for farmers, providing a unified space to connect with agricultural experts and access advanced farming resources. Built using modern web technologies, it leverages data analytics to offer personalized insights, empowering farmers effectively.

SKILLS

- Relevant Coursework:** DSA, DBMS, OS, OOPS, Networks and Cryptography, Computer Architecture, Information Security, Software Engineering, AI, Advanced Competitive Coding, DAA, Java, Cyber Security, Compiler Design, Probability & Statistics.
- Programming:** C, C++, Java, Python, Kotlin, Swift, R Language, Solidity, 8051 Assembly Language Programming (ALP), JavaScript.
- Libraries, Frameworks, and Tools:** Node.js, Express.js, React, Flutter, Truffle, Ganache, MongoDB, SQL, UIKit.
- Software:** LTSpice, Orcad, Google SketchUp, Adobe Photoshop, Scratch, MATLAB, PyCharm, Tableau, Jupyter Notebook, Git/Github, Visual Studio Code, Xcode.
- OS:** Android, iOS, MacOS, Windows, Linux.

EXTRA CURRICULAR ASSETS

- Riviera Cultural Fest

Student Ambassador & Event Representative

Feb 2024
- Guest Care Committee Volunteer

Feb 2023
- JNMUN (Jamnabai Narsee School Model United Nations)

Delegate, Germany – World Refugee Crisis Council

Dec 2017
- Articulated stances on international refugee policy, and actively participated in high-level debates and drafting of resolutions.
- Basketball Tournament

ICSE/ISC Basketball Tournament - Runners up.

Sep 2018
- VIT Basketball League - Runners up.

May 2022
- Portfolios Held

Deutsche Literary Association - Secretary

2024
- Apple Developer's Group - Core Member

2022-2024
- Student Council Leadership – Minister, Undersecretary & House Representative

2014-2018