

# Caine Benoy

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## SUMMARY

Highly motivated Computer Applications student specializing in decentralized systems (Solidity/Web3) and full-stack development (Next.js/TS). Proven ability to architect complex cyber-physical solutions, demonstrated by building a biometric blockchain voting system and leading technical community growth.

## EDUCATION

### Sahrdaya College of Advanced Studies

*Bachelor of Computer Applications [8.01/10 GPA]*

Thrissur, Kerala

*June 2023 – Expected Graduation: March 2026.*

## PROJECTS

### VoteChain: Biometric Blockchain Voting | Solidity, Python, PostgreSQL, Raspberry Pi October 2025 – Present

- Architected and built a 4-tier, cyber-physical voting system that integrates biometric verification (face/fingerprint) via a Raspberry Pi kiosk with a custom backend signer, ensuring one-person, one-vote security.
- Deployed a secure Solidity smart contract on the Ethereum (Sepolia) testnet, serving as an immutable, publicly transparent vote ledger and eliminating the need for user crypto wallets.

### Veritas Vault | Next.js, Firebase, TypeScript, ShadCN UI

Oct 2025

- Developed a full-stack, serverless web application for the SFLC.in Hackathon 2025 to create a censorship-resistant archive gallery, powered by Firebase Authentication and Firestore for real-time search.

## EXPERIENCE

### Campus Lead

July. 2025 – Present

*TinkerHub, Sahrdaya College of Advanced Studies*

*Thrissur, Kerala*

- Spearheaded planning and execution of 7+ learning programs (hackathons, workshops), leading a 5-member core team to engage over 160 students.
- Served as the primary ambassador and chapter lead, successfully mentoring new members and embedding TinkerHub's values (e.g., open-source, collaborative learning) to cultivate strong community growth.

### Quiz Club Coordinator

June 2024 – June 2025

*Sahrdaya College of Advanced Studies*

*Thrissur, Kerala*

- Organized and executed 15+ high-stakes competitive events, managing all logistics, content, and scoring for over 150 student participants per event, while leading a 10-member content curation team.

## TECHNICAL SKILLS

**Blockchain/Web3:** Solidity, Hardhat, Ethers.js, MetaMask, Etherscan

**Core Languages:** Python, TypeScript, JavaScript, SQL (Postgres), HTML/CSS

**Full-Stack/Frontend:** Next.js, React, Node.js, Express.js, Tailwind CSS, ShadCN UI

**Backend/APIs:** Flask, FastAPI, PostgreSQL, Firebase, Supabase, deepface (or face-api.js)

**Embedded/IoT:** Raspberry Pi, RPi.GPIO (or gpiozero), Adafruit Fingerprint

**Developer Tools:** Git, VS Code

## CERTIFICATIONS & AWARDS

**Hackathons & Competitions:** TinkerHub IndiaFOSS 2025 Scholar; 2nd Prize in IIC Ideathon; TinkerHub Vibe Coding Hackathon (Special Mention); SFLC.in Hackathon 2025 (Finalist); 9x College FEST Winner (Marketing Game, Debugging, Treasure Hunt, etc.)

**Certifications & Proficiency:** C1+ Grade in Cambridge Linguaskill Exam; Google Cybersecurity Certificate; Fundamentals of Digital Marketing (Google); TCS iON Career Edge

**Presentation & Outreach:** Delivered talk on "E-waste Management and Future Prospects of E-waste" at a local High School.