MANASI SABNIS

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EDUCATION

BTECH IN COMPUTER SCIENCE.	**OCTOBER 2024-JUNE 2028**
PES UNIVERSITY.	*7.82 cgpa(3rd semester)*
SNBP INTERNATIONAL SCHOOL	**2022-2024**
	12th : 89%
PRESIDENCY SCHOOL BANGALORE SOUTH	*10th-95%*

PROJECTS

Quantum-Resilient Digital Identity System – CCNS Lab.   *Team Lead | October 2025– Present*

- Leading a team of 5 under the CCNS Lab to design a quantum-resilient digital identity system for secure e-governance and defense applications.
- Implemented post-quantum cryptographic techniques to protect digital identities against future quantum attacks.
- Integrated blockchain-based storage to ensure immutability, integrity, and non-repudiation of identity records.
- Designed secure authentication and verification workflows, applying threat modeling and defense-in-depth principles.

Unravel AI – Generative AI Hackathon Project

- Built Unravel AI, a Generative AI system that analyzes and simplifies complex travel documents for users.
- Implemented multilingual summarization, enabling document explanations in multiple languages.
- Added audio output support to deliver summaries as spoken explanations in different languages, improving accessibility.
- Demonstrated practical use of LLMs for document understanding, translation, and user-centric AI design.

EXPERIENCE

Software Engineering Virtual Intern – Forage.   **July-2025**

- Completed a Forage software engineering job simulation, building a React web app, a microservice, and a mobile-friendly feature.
- Gained hands-on experience in full-stack development, system design basics, and real-world problem solving.

SKILLS

C; Python; JavaScript; MERN Stack (MongoDB, Express.js, React.js, Node.js); Rust (basics); Linux; Git & GitHub; API Integration; Command-Line Tools; Cybersecurity Fundamentals; Post-Quantum Cryptography (introductory); Authentication & Authorization; Blockchain Fundamentals; Private Blockchain Implementation; Network Security Basics; Vulnerability Scanning; Generative AI & NLP; Document Summarization; Multilingual Text Processing; Text-to-Speech (Audio Generation).