

SHAYEN THOMAS

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SUMMARY

B.Tech Computer Science student graduating in 2028 with 1+ year of object-oriented programming and full-stack engineering experience. Built API-driven systems using Next.js, FastAPI, Spring Boot, PostgreSQL/Firebase, Docker, and LLM APIs. Strong CS fundamentals in data structures, algorithms, OOP, DBMS, operating systems, and computer networks; interested in scalable systems, code quality, and collaborative product development.

EDUCATION

B.Tech in Computer Science and Engineering | Sahridaya College of Engineering and Technology **2024 - 2028**

APJ Abdul Kalam Technological University | CGPA: 9.02/10 (up to S4) | Minor: Biotechnology (Bioinformatics)

Relevant Coursework: Data Structures & Algorithms, Object-Oriented Programming, Design & Analysis of Algorithms, DBMS, Operating Systems, Computer Networks

TECHNICAL SKILLS

Languages: Java, Python, TypeScript/Javascript, C, C++

Software Engineering: Data Structures & Algorithms, OOP, REST APIs, MVC/API architecture, authentication, testing/debugging

Backend: Spring Boot, FastAPI, Node.js, Express.js, SQLAlchemy

Frontend: Next.js, React, Tailwind CSS, HTML, CSS

Data/Infra: PostgreSQL, MongoDB, MySQL, Firebase, Docker, Git, AWS, GCP

AI/Data Tools: LangGraph, RAG, LLM APIs, ReportLab

PROJECTS

Sydney - Biomedical Variant Intelligence Platform | Next.js, FastAPI, SQLite/PostgreSQL, ClinVar, PubMed, Groq, ReportLab

- Built a full-stack evidence platform for 3 cancer genes (BRCA1, BRCA2, TP53) with REST APIs, database models, AI summaries, confidence scoring, and PDF report generation.
- Implemented variant comparison and publication trend dashboards, cutting manual literature-review effort per variant query from hours to minutes.

NeuroLearn AI - Adaptive Tutor for Neurodivergent Learners | Next.js, FastAPI, LangGraph, RAG, Gemini/Groq, SQLite, TTS

- Engineered a Malayalam-first tutor with agent-based personalization, RAG retrieval, concept evaluation, and curriculum JSON pipeline across 8 curriculum packages.
- Implemented progressive 3-chunk TTS and privacy-first memory extraction, discarding raw transcripts immediately after converting them to structured memories to minimize stored learner data.

Sahridaya College Website CMS & Migration | Next.js, Firebase, Firestore, Auth, SEO

- Built custom CMS/admin dashboard with role-based access, real-time content updates, SEO pages, and deployment architecture for WordPress to Next.js migration.
- Migrated the college website from WordPress to a Next.js/Firebase stack with zero downtime, giving non-technical staff independent publishing control over pages and announcements.

EXPERIENCE

Chief Technology Officer | IEDC Sahridaya

2025 - Present

- Led a student developer team delivering multiple innovation platforms, event websites, and internal tools across web, Firebase, CMS, and deployment workflows, cutting new-site turnaround time using reusable Next.js/Firebase templates.

Technical Coordinator | IEEE Assistive Technology & Inclusive Innovation Group

2026 - Present

- Built accessibility-focused web systems and maintained reusable components including @ieee-atig/accessibility-menu, reaching 100+ weekly npm downloads.

ACHIEVEMENTS

VITALS 24, National-level Hackathon - 2nd Runner-Up

- Built an end-to-end deepfake video detection system using MTCNN for face extraction and EfficientNet trained on the FaceForensics++ dataset

ICTAK Techathlon 2024-25, State-level GenAI Hackathon - 2nd Runner-Up

- Built an AI-powered personalized course recommendation system for FYUGP elective selection across colleges in Kerala