

Fathima Sahala K

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Objective

Motivated Computer Science undergraduate with expertise in Python, SQL, full-stack web development, and AI-driven systems, seeking to contribute to impactful software solutions at TCS through the NQT Campus Drive. Passionate about building intelligent, scalable applications and eager to bring strong problem-solving skills and technical knowledge to a dynamic professional environment.

Education

B.Tech in Computer Science and Engineering	2023 - Present
NSS College of Engineering, Palakkad, Kerala	CGPA: 8.60
Class XII	2020 – 2022
P. T. M HSS Thrikkadeeri, Palakkad	Percentage: 97.6%
Class X	2019 – 2020
P. T. M HSS Thrikkadeeri, Palakkad	Percentage: 98%

Projects

• Hostel Hub - Full-Stack Hostel Management System | Feb 2026

Developed Hostel Hub, a hostel management platform with automated attendance tracking, billing, grievance handling, and a rule-based chatbot for student support. Implemented JWT authentication and Role-Based Access Control (RBAC) for secure admin and student access. Built a responsive and interactive interface using React, TypeScript, Tailwind CSS, Shadcn UI, and Recharts with a Node.js, Express, and SQLite backend. [Github](#)

• Context-Aware File Organizer | Jan 2026 – April 2026

Engineered an AI-based file organization system using transformer-based BERT embeddings for semantic content understanding and classification. Implemented cosine similarity, K-Means clustering, and a semantic search pipeline for intelligent file matching, automated grouping, and efficient retrieval. Tools: Python, Sentence Transformers, Scikit-learn, NLP, Cosine Similarity, K-Means Clustering. [Github](#)

Skills

Technical Skills: Python, Java, C, MySQL, SQLite, HTML, CSS, TypeScript, React, Node.js, Express.js, Tailwind CSS, JWT Authentication

Interpersonal Skills: Analytical Thinking, Problem-Solving, Communication, Teamwork, Adaptability

Languages Known: English, Malayalam, Tamil

Certifications

- Python Using AI | AI FOR TECHIES – July 2025
- DBMS Course - Master the Fundamentals and Advanced Concepts | Scaler – May 2026

Achievements

- Best group project | Tinker-Her-Hack | January 2025
- Useless Project | TinkerHub | August 2025

Position of Responsibility

- **Active coordinator**, Blockchain Community, NSSCE 2025 – 2026
- **Design Team Member**, STACS, NSSCE 2024 – 2025