

Nipun Patel Thumu

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SST CGPA: 8.53 / 10 — BITS CGPA: 9.00 / 10

Profile

Computer Science undergraduate focused on backend systems, distributed software, and applied AI. Builds tested, documented products and brings paid Teaching Assistant experience supporting first-year Computer Science and MERN full-stack cohorts.

Technical Skills

Languages: Java, Python, JavaScript, TypeScript, SQL, C++

Frontend: React, HTML5, CSS3

Backend: Node.js, Express.js, Spring Boot, FastAPI, REST APIs

Databases / Infrastructure: PostgreSQL, Supabase, MongoDB, SQLite, Redis, Docker, GitHub Actions

AI / Machine Learning: RAG, Vector Search, Embeddings, Gemini API, Deepgram, PyTorch

Core CS: Data Structures & Algorithms, OOP, DBMS, Operating Systems, System Design, Caching

Projects

ScribeFlow - AI Meeting Intelligence Platform

Live Demo

TypeScript — React — Express.js — PostgreSQL — pgvector — Deepgram — Gemini

- Contributed to a team-built meeting intelligence platform with resumable uploads, speaker-aware transcripts, structured summaries, action items, and evidence-linked semantic search.
- Worked across typed contracts, interface states, backend behavior, validation, persistence, and reliability-focused product decisions.

Distributed Search Typeahead System

GitHub

Java — Spring Boot — Redis — SQLite

- Designed a Redis-backed typeahead service using consistent hashing, targeted cache invalidation, request batching, and graceful SQLite fallback.
- Focused on latency-aware retrieval, failure handling, and predictable behavior during partial cache outages.

LexGuard - AI Contract Analyzer

Live Demo

TypeScript — React — Express.js — Gemini — Vertex AI

- Built a contract-intelligence prototype that converts risky clauses into plain-language consequences, obligations, and negotiation prompts.
- Added structured model output, server-side Gemini access, normalization, and deterministic fallback behavior for predictable reports.

University Library Platform

Live Demo

MongoDB — Express.js — React — Node.js — JWT

- Developed a multi-tenant MERN library platform with university-scoped inventory, student and administrator roles, lending workflows, and secure cookie-based sessions.

Experience & Leadership

Teaching Assistant - MERN Full-Stack Development

Aug 2026 – Nov 2026

Scaler School of Technology — Paid, Part-time — Current

- Support 40 students across MongoDB, Express, React, and Node.js through two labs each week plus additional sessions before examinations or whenever needed.
- Review assignments and full-stack projects, conduct evaluations, and help debug frontend, API, database, and integration issues.
- Prepare teaching material and coordinate with instructors to reinforce application structure, testing, and practical debugging habits.

Buddy - First-Year Computer Science Curriculum

Aug 2025 – Jun 2026

Scaler School of Technology — Paid, Part-time

- Mentored approximately 30 first-year students across programming, data structures, web development, mathematics, databases, and operating systems.
- Conducted or supported office hours, labs, and class-wide doubt sessions approximately three times per week.

- Reviewed assignments and projects, conducted evaluations, prepared learning material, and coordinated with instructors and program owners.

Education

BITS Pilani

B.Sc. in CSE

Expected 2027

BITS CGPA: 9.00 / 10

Scaler School of Technology

Computer Science programme

Expected 2028

SST CGPA: 8.53 / 10

Relevant Coursework: Data Structures & Algorithms, Object-Oriented Programming, DBMS, Operating Systems, Computer Networks, System Design, Machine Learning, Generative AI