

# MEET MODI

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## Education

**BMS Institute of Technology, Bengaluru**

*Bachelor of Engineering in Computer Science*

**2024 – 2028**

*9.74/10 (Up to 3rd sem)*

## Technical Skills

**Languages:** C++, JavaScript, TypeScript, C

**Systems & Backend:** Node.js, Express.js, FastAPI, Redis, BullMQ, PostgreSQL, MongoDB, RESTful APIs, microservices

**Frontend:** React.js, Tailwind CSS, Vite, Server-Sent Events

**AI & Tools:** Gemini AI API, prompt engineering, Claude Code, Git, GitHub, Docker, Postman

**Relevant Coursework:** Data Structures, Algorithm Design, Object-Oriented Design, Complexity Analysis

## Experience

**Teachmint (Backed by Rocketship.vc, Accel)**

**Feb 2026 – Present**

*Web Developer Intern*

*Sarjapur, Bengaluru*

- Integrated the **Gemini AI API** into a production quiz-generation pipeline: designed prompt templates and few-shot examples to handle ambiguous subject-matter edge cases, added output validation layers to catch malformed JSON responses, and reduced manual content-review load for the EduAI platform.
- Designed and shipped an end-to-end e-learning marketplace with a **React.js** frontend, **FastAPI** (Python) backend, and secure **Razorpay** payment integration; owned the full delivery cycle from requirements to production deployment.
- Collaborated with product, design, and QA to build and ship full-stack features for the Teachmint website and EduAI platform; independently resolved ambiguous requirements and integrated new libraries without escalation.

**Open Source Contributor (HacktoberFest '25)**

**Oct 2025 – Nov 2025**

*Full Stack Contributor*

*Remote*

- Diagnosed a rendering bottleneck in PrivGPT-Studio (**React/Next.js**) by profiling route structure, reducing Total Blocking Time from 510ms to 300ms (~41%). Recognised as **SuperContributor**.

## Projects

**Email Scheduler & Rate-Limited Delivery System** | [Live](#) | [GitHub](#)

**Jan 2026**

*TypeScript, Node.js, Express.js, React, BullMQ, Redis, PostgreSQL*

- Built a background job system that accepts email requests via a REST API and hands them off to **Redis/BullMQ** workers, keeping the API fast while delivery happens asynchronously across concurrent workers.
- Implemented a per-user rate limiter using **atomic Redis counters** so multiple workers can enforce send quotas simultaneously without race conditions or double-counting.
- Added automatic retry logic that reschedules failed deliveries with configurable backoff, so temporary failures resolve without manual intervention.
- Built a **React** dashboard with live job updates via **SSE** (no polling) and a **PostgreSQL** store tracking send history, retry counts, and failure reasons per user.

## Achievements

- AlgoUniversity Accelerator** (Y-Combinator backed): selected in the top **1.4% of 49,500** applicants across India.
  - Mentored by senior engineers from **Google, Apple, and AlphaGrep** on scalable systems and distributed architecture.
- Competitive programming:** LeetCode **Knight** badge, peak rating **1927 (Top 4%)**, CodeForces **1311; 800+** problems solved across arrays, graphs, DP, and segment trees.
- 1st place, Utsaha** — CodeChef campus competitive programming contest, BMSIT.
- Sub-Lead**, Google Developer Groups on Campus, BMSIT: organised technical workshops and mentored peers in software development.
- SuperContributor**, HacktoberFest 2025: recognised for consistent, high-quality open-source contributions.