

SATWIK R PRABHU

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EDUCATION

NMAM Institute of Technology, Nitte

Dec 2021 – July 2025

Bachelor of Engineering (B.E.) in Computer Science & Engineering

8.78/10.00

Course works: Operating Systems, Object-Oriented Programming (OOP), DBMS, Computer Networks

EXPERIENCE

Advanced Services Engineer

Sep 2025 - Present

[Oracle](#)

Bengaluru, India

- Created and debugged PL/SQL packages for Oracle E-Business Suite (EBS) to quickly fix complex database logic failures, improve query performance and ensure smooth system operations.
- Developed an **AI agent** for Oracle EBS that automates root cause analysis through iterative SQL deconstruction, reducing manual debugging time by **50%** and significantly accelerating data resolution for complex logic failures.

HPE CTY Intern

Jan 2024 - June 2024

[Hewlett Packard Enterprise \(HPE\)](#)

Remote

- Implemented containerization and automated horizontal pod autoscaling (HPA) for applications based on real-time workloads using Docker and Kubernetes during HPE's Catch Them Young Program.
- Developed a clean user interface for custom HPA management and gained hands-on experience with Prometheus and Grafana for system observability and monitoring.

PROJECTS

[Incridea'25](#) — Next.js, Typescript, TailwindCSS, GraphQL, Prisma ORM — ([Source Code](#))

Led the technical team of Incridea'25 (annual fest @NMAMIT) and successfully developed a typesafe paperless **registration** and jury system for **40+** events, processing **25 lakh+ INR** via a secure Razorpay payment gateway. Developed secure JWT **authentication**, **email verification**, and **7+ role-based dashboards** for real-time logistics, alongside automated Twilio notifications and digital certificate issuance.

[PulseSync](#) — Next.js, Typescript, Llama2, Deepgram STT, ElevenLabs TTS — ([Source Code](#))

Developed a medical health assistant featuring a voice-interactive 3D character interface powered by a locally run Llama2 model, Deepgram STT (speech to text), and ElevenLabs TTS (text to speech)

[Yakshagavishti](#) — Next.js, tRPC, NextAuth.js, Prisma ORM, Tailwind CSS — ([Source Code](#))

Developed a full-stack platform featuring a paperless registration and jury scoring system, which streamlined the management of an inter-college Yakshagana competition.

SKILLS

Languages

C++, Python, HTML, CSS, Javascript, Typescript, Oracle SQL

Frameworks & Libraries

React.js, Next.js, Node.js, Express.js, GraphQL, tRPC, Tailwind CSS

Tools & Tech

Git, Github, Docker, Kubernetes, VPS Hosting, Postman, Prometheus, Grafana

LEADERSHIP AND INVOLVEMENT

President - Finite Loop Club

June 2024 - May 2025

Conducted induction for **900+** freshers and led hands-on **Git & GitHub workshop**, empowering **75+ participants** with version control skills. Represented club and college at HackOverflow and Smart Nitte Hackathon. Actively contributed to Hackfest 2024's Technical Committee, aiding in website development for a seamless user experience.

Technical Head - Incridea'25

Jan 2024 - March 2025

Managed the end-to-end development lifecycle of the college fest website and served as the core committee head to oversee technical operations for the entire event.