

HARSH CHHALLANI

✉ harsh.chhallani22@spit.ac.in  Github Leetcode  LinkedIn  +91 8421405348

EDUCATION

Sardar Patel Institute of Technology

Dec. 2022 – May 2026

Bachelor of Technology in Electronics and Telecommunication Engineering

Mumbai, India

- **Relevant Coursework:** Data Structures and Algorithms, Object Oriented Programming (OOP), Software Testing

TECHNICAL SKILLS

Languages: Java , JavaScript

Technologies/Frameworks: Node.js, React, Next.js, TypeScript, Express.js, Tailwind CSS

Databases: PostgreSQL, MySQL, MongoDB, Redis

Cloud & DevOps: AWS (EC2, S3, Lambda)

WORK EXPERIENCE

Subject Matter Expert — Chegg

Apr 2023 – Oct 2024

Remote

- Solved **Physics** and **Computer Science** queries with **step-by-step, concept-focused explanations** for global students.
- Debugged code and clarified programming concepts in **C++** and **Java** to assist with academic assignments.
- Refined technical communication skills by supporting diverse academic needs across international time zones.

PROJECTS

Proctorap – Web-Based Proctoring System | *Node.js, Express.js, PostgreSQL, Prisma*  proctorap.harshdev.cloud

- Developed a **security wrapper** that transforms any online test (Google/Microsoft Forms , etc) into a **monitored assessment** in under 30 seconds.
- Implemented **real-time violation detection** including tab switching, fullscreen exits monitoring.
- Built comprehensive **evidence collection system** with automatic screenshot capture for secure storage.
- Created educator dashboard with **live violation reports**, detailed attempt analytics, and comprehensive evidence review system.

FOA – AI Voice Interviewer | *Next.js, Node.js, Prisma, PostgreSQL, AWS EC2*

 app.foai.harshdev.cloud

- Serves **70+ active users** with **voice-based** mock interviews using **STT → LLM → TTS** pipeline and **JWT/OAuth2 authentication**.
- Generates **contextual** follow-up questions using **resume, job description**, and **conversation history** via Gemini API.
- Delivers **post-interview analysis** with **ideal** candidate answers and **personalized** feedback.
- Achieved **90% pipeline latency reduction** and deployed on **AWS EC2** with **PostgreSQL** backend.

Moodle Assignment Automation | *Playwright, React.js, AWS EC2, Redis, Bull Queue*

 moodle.harshdev.cloud

- Serving **130+ students** with **automated assignment completion** using **Redis caching**, **browser pooling**, and **Bull Queue** job processing.
- Built content pipeline using Playwright automation, Mammoth.js, and Gemini to generate contextual assignments.
- Engineered concurrent document generation using DOCX templates and Supabase storage, handling 500+ assignments/month.
- Achieved **99% uptime** and **6x parallelization** via optimized worker architecture and multi-layered caching strategy.

ACHIEVEMENTS

National Finalist - EY Techathon 5.0 — **Top 11** out of **1.5L+** entries and **6,300+** submissions.

Top 105 - Google Solution Challenge — Out of **64,000+** entries and over **3,700+** submissions.

Finalist - K! Hacks 2.0 — Selected in **Top 25** from **4,500+** entries at CEG, Anna University.

Finalist - AIRAVAT 2.0 — Selected in **Top 12** from **600+** entries at S.P.I.T, Mumbai University.

Solved 900+ DSA Problems across platforms like LeetCode, Codeforces, and GeeksforGeeks.