

# ARYAN NARANG

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## EDUCATION

### Vellore Institute of Technology

Bachelor of Technology (B.Tech), Computer Science and Engineering

2022 – 2026 (Expected)

## WORK EXPERIENCE

### SDE Intern — ITJOBXS

May 2025 – July 2025

- Developed a fully responsive web interface for the Interview Experiences section of itjobxs.com using HTML, CSS, Bootstrap, and JavaScript.
- Engineered PHP-MySQL registration logic with domain-based email validation using hash-based whitelisting to mitigate automated bot registrations.
- Designed and optimized SQL queries for performance and integrated Google reCAPTCHA with server-side verification to prevent automated abuse.
- Delivered an end-to-end MERN-based e-commerce solution for a client, implementing authentication, product management, and order workflows.

## TECHNICAL SKILLS

- Languages:** Python, JavaScript, C++
- Frontend / Backend:** React, Next.js 13, Flask, REST APIs, WebSockets
- Databases:** MySQL, MongoDB
- Authentication / Video:** Clerk (OAuth, JWT), Stream SDK (WebRTC)
- Tools / Deployment:** Git, GitHub, Vercel
- Problem Solving:** Data Structures & Algorithms, Competitive Programming

## PROJECTS

### YOOM — Real-Time Video Conferencing Platform

- Built a full-stack video conferencing platform using Next.js 13 (TypeScript), WebRTC (Stream Video SDK), and Clerk authentication (OAuth/JWT).
- Implemented real-time features including meeting scheduling, instant joins, call recordings, role-based access control, lobbies, screen sharing, and dynamic layouts.
- Engineered real-time state synchronization and access control logic; deployed and maintained the application on Vercel.

### SaaS Admin Management Platform — Full-Stack MERN Application

- Built a SaaS-style admin platform using MongoDB, Express.js, React, and Node.js, implementing JWT-based authentication and role-based access control (Admin/User).
- Designed admin and user dashboards with CRUD operations to manage users, support requests, and task assignments using status-based workflows.
- Designed modular REST APIs with middleware-based JWT validation and role-gated route protection.

### SympoCareAI — AI-Assisted Medical Triage Chatbot

- Developed a Flask + WebSockets chatbot integrating MediSearch API and LLMs to analyze symptoms with safety guardrails such as triage prompts, disclaimers, and fallback responses.
- Designed REST APIs and validated real-time performance across multiple query scenarios to ensure responsive and consistent user interactions.

## ACHIEVEMENTS & CERTIFICATIONS

- Solved **300+ Data Structures & Algorithms problems** across arrays, hashing, trees, graphs, sliding window, and binary search.
- Achieved **Global Rank 3,561** in a **LeetCode Weekly Contest**, demonstrating strong algorithmic problem-solving under time constraints.
- Microsoft Certified: Azure AI Engineer Associate** — Microsoft