

# Amitabh Shanker

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LinkedIn GitHub LeetCode

## PROFILE SUMMARY

Forward-thinking software engineer skilled in Python, system-level development, full-stack engineering, and DSA in C++. Experienced in building secure applications, analyzing firmware vulnerabilities, and designing scalable solutions.

## EDUCATION

### B.E. in Computer Science and Engineering

BMS Institute of Technology and Management, Bengaluru

2022 – 2026

CGPA: 8.57

### Intermediate (PCM + Computer Science)

Lucknow Public Schools and Colleges (ICSE)

Grade: 92%

## EXPERIENCE

### Nokia – R&D Intern

Aug 2025 – Present

- Refactored a URL-based script into a RESTful FastAPI service, enabling JSON-driven requests, CI/CD integration, and automated workflows.
- Gained hands-on experience with OpenBMC, embedded Linux, kernel-level vulnerability investigation, patch application, and validation across product builds.

## PROJECTS

### CareNexus – AI-Powered Medical Symptom Analyzer

[Link](#)

- Built a full-stack healthcare platform supporting 3+ input modalities (text, voice, image) and processed 20000+ test cases for disease prediction and severity triage.
- Implemented a BERT-based NER model increasing symptom extraction accuracy by 85%, and an EfficientNet CNN achieving 90%+ accuracy on dermatology datasets.
- Developed secure authentication, patient/doctor dashboards, medical history, questionnaires, and appointment management using Supabase RLS.

### Trip Tales

[Link](#)

- Developed a full-stack MERN travel story platform with secure JWT-based authentication, enabling users to register, login, and manage personal stories.
- Implemented story creation, editing, and deletion with image upload support and travel date selection.
- Built search and filter functionality (date-range filtering) and a favorites/pin feature for quick access to preferred stories.
- Optimized front-end performance and ensured responsive UI/UX across devices.

## ACHIEVEMENTS

- Presented research paper titled “Zero-Shot Medical Diagnosis using Multimodal Foundation Models” at **ICONAT 2025**, focusing on multimodal AI-driven diagnosis.

## TECHNICAL SKILLS

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

**Frameworks:** React.js, Next.js, Node.js, Express.js, FastAPI

**Developer Tools:** Git, Linux, Docker, Postman, Supabase

**Libraries:** TailwindCSS, Bootstrap