Akhil Thirunalveli

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Education

Vellore Institute of Technology   2022 - 2026
B.Tech in Computer Science and Engineering
Course Work: Data Structure & Algorithm, Object Oriented Programming, Operating System & DBMS

Skills

- **Languages:** Java, Python, JavaScript, SQL
- **Frameworks/Libraries:** React, Node.js, Express.js, MySQL, Spring Boot, MongoDB
- **Tools & Technologies:** Linux, AWS, Docker, Git, Shell Scripting, WebSocket

Experience

State Bank of India Foundations   Oct 2024 – Dec 2024
SDE Intern (Summer Internship)
- Developed high-performance video conferencing backend achieving under 100ms latency using Node.js, Fastify, and WebRTC connections
- Directed a responsive UI with Next.js and Tailwind CSS, reducing load times for SBI Community Connect Application for Youth India

Projects

MockMate: Interview Coaching App   Github — App
React, Node.js, Express.js, MongoDB, Gemini API, Machine Learning
- Built full-stack interview coaching app across 12+ programming domains using React and Node.js
- Integrated 4 APIs including Gemini and OpenAI Whisper for real-time question generation and speech transcription
- Architected scalable Express.js middleware with MongoDB for handling concurrent users & sessions across the site

Newssailor.com: Automated News Application   Github — App
React, Firebase, Custom API, GitHub Actions
- Created a React web application with Material-UI that fetches 200 news articles every 2 hours via custom API Newsdata.io integration
- Deployed Firebase-backed architecture for real-time news sync, handling 2,400 fresh articles daily
- Improved load time by 35% using lazy loading and enhanced API caching, enhancing user engagement and retention

Know My Status: QR Based Monitoring System   Github — App
React, Node.js, Express.js, Supabase, React Native, Firebase, AWS
- Launched QR-based system to track teacher availability in real time, increased system accessibility by 70% compared to previous version
- Implemented a mobile-responsive app using React Native, allowing students to scan QR codes and access teacher info in under 2 seconds
- Optimized RESTful APIs with Node.js, enabling faster updates and reducing data sync time by 40% using supabase

Achievements

Adobe India Hackathon — Semi Finalist
- Made an intelligent document analyst using MiniLLM-v2 with 90% accuracy, created a solution which extracts headers from any document and exports them to JSON file with a docker file

Competitive Programming:
- Leetcode: Achieved Knight Level with 1899 Rating (Best Ranking: 745/26988)
- GeeksforGeeks: 1749 level under Vellore Institute of Technology

Position of Responsibility

Non-Technical Lead at The Google Developer Groups   Sept 24 – Present
Google Cloud and Google GenAI Facilitator - Mentored over 300 students, completed more than 1650 skill badges on Qwiklabs, and achieved Level II for VIT.

Language: English, Hindi, Tamil, Telugu, Marathi