

AKHIL THIRUNALVELI

Portfolio | thirunalveliakhil@gmail.com | [LinkedIn](#) | [GitHub](#) | [Leetcode](#) | +919604937182

TECHNICAL SKILLS

Java, Python, JavaScript, TypeScript, React, Next.js, Bootstrap, Node.js, Express.js, MongoDB, MySQL, Postman, Swagger, API

EDUCATION

Bachelor of Technology Computer Science Engineering

2022 - 2026

Vellore Institute of Technology, Bhopal | CGPA : 8.47

INTERNSHIP

Full Stack Developer - Intern

State Bank of India Foundation

Technical Skills: Node.js, Next.js, TypeScript, React, Fastify, Postman API, Swagger, WebRTC, Custom APIs

- Developed backend infrastructure for a video-conferencing application using Node.js, Fastify, and WebRTC, enhancing performance and scalability. Integrated real-time communication features using Socket.io WebSocket connections and TURN/STUN server configurations. Reduced server latency to under 100ms during multi-user sessions.
- Employed **Postman and Swagger** for API testing; Implemented automated updating of the features page.
- Designed a responsive web interface for the **SBI Community Connect App using Next.js and Tailwind CSS**, ensuring fast load times and modern UI design.

CERTIFICATE

PROJECTS

MockMate - Interview Preparation using AI with Video Assistant

React, Node.js, Express.js, MongoDB, Gemini API, Google Text to Speech, MediaRecorder API, Whisper API



- Engineered a full-stack interview coaching application with 12+ programming domains using **React** frontend with **MediaRecorder API** for video capture and **Node.js/Express.js** backend with **MongoDB** for scalable data management and user session persistence.
- Integrated **Gemini API** for question generation and response evaluation, coupled with **Google Text-to-Speech** for natural voice delivery and **OpenAI Whisper API** for accurate speech transcription and analysis.
- Designed responsive interface components featuring real-time feedback mechanisms and performance tracking dashboards with CRUD operations, enabling voice-based interactions with under 200ms latency.
- Configured MongoDB **database schemas** with optimized indexing strategies for efficient storage and retrieval of user profiles, interview sessions, and performance metrics.

Newsailor

React, Firebase, Custom APIs, Google Cloud, Material UI



- Built a React web application with Material-UI that fetches 200+ news articles every 2 hours via custom API integration, delivering 2,400+ fresh articles daily.
- Implemented automated polling system achieving 12 data refresh cycles per day with minimal latency.
- Deployed scalable solution using **Firebase backend** supporting real-time data synchronization.
- Developed responsive React architecture with **Material UI components** enabling seamless browsing of 14,400+ weekly aggregated articles.
- Engineered efficient data management system handling 73,000+ articles monthly with optimized Firebase queries and caching strategies.
- Created user-friendly interface with Material UI design system, supporting multiple news categories and search functionality across 100+ daily active sessions.

Know My Status (KMS) - QR Enabled Monitoring System

React, Node.js, Express.js, MongoDB, PHP, MySQL, React Native, Firebase, Expo



- Developed a QR-enabled Teacher Status Monitoring System ("Know My Status") for real-time teacher availability and schedule tracking.
- Implemented unique QR code generation using the official "**phpqrcode**" module, mapping each teacher to live status updates that refresh the website using middleware.
- Built a mobile-friendly web application using React Native for students to scan QR codes and instantly access teacher schedules and contact details.
- Designed responsive web interface with QR scanner integration using device **camera APIs**, supporting 98% of modern mobile browsers except iOS.
- Developed RESTful API middleware architecture connecting **PHP backend with Node.js services**, process updating process faster.

CO-CURRICULAR

- Leetcode**
- Solved over **400+ questions** (Global Ranking : 202,234)
 - Achieved **Knight Level** with **1899** Rating (Contest Ranking : 29,076)

[LEETCODE PROFILE](#)

- Geeksforgeeks**
- Solved over 100+ questions (Rank : 1899 Rank)

[GEEKSFORGEEEKS PROFILE](#)

POSITIONS OF RESPONSIBILITY

Non-Technical Lead at Google Developer Groups Sept 24 – Till date

[LINK TO WORK](#)

Financial Tech Member at Slice under Super 50 Team Oct 24 – Till date

[LINK TO WORK](#)

Google Cloud and Google GenAI Facilitator Aug 23 – Oct 23

[LINK TO WORK](#)

- Mentored over 300 Students and completed over 1650 Skill badges in qwiklab & **Achieved Tier II for VIT Bhopal University**

ADDITIONAL INFORMATION

Language Skills: English, Hindi, Tamil, Telugu, Marathi

Interests/Hobbies: Writing, Reading & Designing in Figma