

# AKHIL THIRUNALVELI

Portfolio | [thirunalveliakhil@gmail.com](mailto: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

## INTERNSHIP

### Full Stack Developer - Intern

State Bank of India Foundation

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

- Worked on backend 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. Bringing down server latency less than 100ms during multi-user sessions.
- Employed **Postman and Swagger** for API testing; version-controlled work with Git. Ensured automated updation of 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.

## 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 dynamic 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, performance tracking dashboards with CRUD Operations. enabling voice-based interactions with <200ms latency
- Configured MongoDB **database schemas** with optimized indexing strategies for efficient storage and retrieval of user profiles, interview sessions, and performance metrics.
- Created RESTful API architecture with JWT authentication and rate limiting, handling upto 1000 API requests per minute with almost high uptime.

### Know My Status (KMS)

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 which updates website using middlewares.
- Built a mobile-friendly web application for students to **scan QR codes** and instantly access teacher schedules and contact details using **react native**.
- 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**, processing updation process fast4er.

### VIT Examination Portal

HTML, CSS, JavaScript, PHP, MySQL

- This Project build comprehensive Examination Portal which solves Problem regarding Notes, Previous Year Papers and attempting Examination.
- Right from sending mail to students for upcoming examinations to Providing Notes in the portal. Website has been made in two ways rights – Students and Admin giving them various options separably.
- Implemented role-based access control for Students and Admin, providing databases for each. Ensuring Attendance feature for admin panel.

## 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)

[GEEKSFORGEES PROFILE](#)

## EDUCATION

**Bachelor of Technology Computer Science Engineering**

**2022 - 2026**

Vellore Institute of Technology, Bhopal | CGPA : 8.25

## 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

CERTIFICATE

