AKHIL THIRUNALVELI

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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

Vellore Institute of Technology, Bhopal | CGPA: 8.47

INTERNSHIP

Full Stack Developer - Intern

State Bank of India Foundation

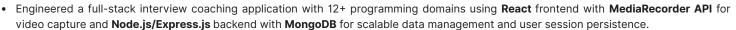
Technical Skills: Node.js, Next.js, TypeScript, React, Fastify, Postman API, Swagger, WebRTC, Custom APIs

- 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.

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



- Integrated Gemini API for question generation and response evaluation, coupled with Google Text-to-Speech for natural voice delivery and **OpenAl 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



- 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
- Engineered efficient data management system handling 73,000+ articles monthly with optimized Firebase gueries 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

 Solved over 400+ questions (Global Ranking: 202,234) Leetcode

Achieved Knight Level with 1899 Rating (Contest Ranking: 29,076)

LEETCODE PROFILE

Geeksforgeeks

• Solved over 100+ questions (Rank: 1899 Rank)

GEEKSFORGEEKS 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 LINK TO WORK

Google Cloud and Google GenAl Facilitator Aug 23 – Oct 23

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

ADDITIONAL INFORMATION

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

Interests/Hobbies: Writing, Reading & Designing in Figma

CERTIFICATE

2022 - 2026

