

Kale Praveen Raj

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Skills

- Java, C, PHP, HTML, CSS, Spring Boot, SQL, MySQL, MongoDB, Python, React, Javascript

Experience

Engineering Intern, Horrizon Tech Alliance World

Dec 2024 - Jun 2025

- Engineered a desktop application for an online wiring harness company, achieving a 30% increase in user engagement and enhancing the shopping experience.
- Integrated Nexar's API based on subscription plans, improving functionality and streamlining user interactions by 25%.
- Stored and managed data from the Nexar API in Supabase, ensuring reliable data retrieval and performance.

Projects

AI Developer Text to Speech System

- Text to speech (TTS) synthesis is the automatic conversion of text into speech.
- Generally, TTS system consists of two phases. The first is text analysis, where the input text is transcribed into a phonetic or some other linguistic representation. The second one is the generation of speech waveforms.
- In this TTS system, text to phoneme conversion depends on dictionary based approach to get the exact phonetic transcription. Speech synthesis such as domain specific, phoneme based synthesis and unit selection synthesis are used for concatenating speech.
- For numerical text to speech system, domain specific synthesis is applied. In phoneme based synthesis, the input text is considered as word to produce sound. For input sentence, unit selection speech synthesis is applied. This TTS system is mainly used for visual impairments and handicapped people.

Quantum Computing Research Intern

- Quantum Computing is about computing with quantum systems, leading to the so called quantum computers, not about computational quantum physics.
- A quantum computer, however, can be used to model a number of phenomena much more efficiently than by using classical computers.
- To transferring the data we are implementing an algorithm called “Shor’s Algorithm” using the quantum gates and quantum circuits, those are quantum Hadamard gate and quantum Control NOT gate. This algorithm transfers two classical bits as one single quantum bit (Qubit).

Transport Company (Back End Developer)

- The purpose of this system is to manage and control company transport provided by employer to employees especially in a IT/BPO, Manufacturing Industry, School etc. A
- Transportation Management System is a software system designed to manage transportation operations and ensure better service, decrease routing time with optimized cost and fuel efficiency.
- The Transport Management System enables vehicle booking and tracking, driver and route management, shipment record maintenance, and secure admin/operator access with real-time updates on deliveries, availability, and schedules.

Hospital Management System (Back End Developer)

- HMS is a website which includes registration of patients, storing their details into the system.
- Our software has the facility to give a unique id for every patient and stores the details of every patient and the staff automatically.
- User can search availability of a doctor and the details of a patient using the id. The Hospital Management System can be entered using a username and password. It is accessible either by an administrator or receptionist.

Education

Rajiv Gandhi University Of Knowledge Technologies Basar, BE/B.Tech/BS in CS | 7.09 CGPA 2018

Achievements

- Secured Mandal 1st rank in SSC-2011 and got seat in RGUKT Basar.
- Awarded 1st prize in Quiz Competition conducted in Library Weekends at Kotagiri(M).

Positions of Responsibility and Extra-Curricular Activities

- Served as a CR for 2 semesters at RGUKT-Basar.
- Participated in TCS CodeVita 2016.