

# RAJAKUMAR B

SOFTWARE ENGINEER



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Chennai, TamilNadu, India



## SKILLS

- Java
- C Programming
- HTML/CSS
- Python
- JavaScript
- ReactJs/NodeJs
- Communication

## EDUCATION

### BACHELOR OF TECHNOLOGY

Velammal Engineering College

2022 - 2026 CGPA : 8.49

### HSC

Jaigopal GaroMatriculation  
Higher Secondary School

2020 - 2022 Percentage : 91%

### SSLC

Ponnuswamy Matriculation School

2019 - 2020 Percentage : 77.4%

## CAREER OBJECTIVE

Eager to channel my passion for Java and Full Stack Development into dynamic projects that challenge my problem-solving skills, enhance user experiences, and promote smart, data-driven solutions.

## EXPERIENCE

### FULL STACK DEVELOPER

VBIND Innovation Private Limited

Nov 2024 - Dec 2024

- Developed interactive survey functionalities using PHP and AJAX for real-time data submission and response handling.
- Integrated MySQL for structured data management and optimized both front-end and back-end performance for a smooth user experience.

### WEB DEVELOPER

#### LEARNTRICKS

May2024 - Jun 2024

- Built responsive web apps using HTML, CSS, and JavaScript
- Implemented RESTful APIs for seamless data integration
- Conducted testing and debugging for optimal performance

## PROJECTS

### NETFLIX CLONE

Built a Netflix clone featuring a sleek, responsive design using HTML, CSS, and JavaScript to ensure smooth performance across devices. Implemented dynamic content display and replicated the original Netflix user interface to deliver an immersive and intuitive browsing experience. Integrated interactive elements such as hover effects, category sliders, and responsive layouts to enhance user engagement.

**Technologies used:** HTML, CSS, JavaScript

### DYNAMIC TRAFFIC SIGNAL OPTIMIZATION

Developed an optimized traffic routing system that integrates multiple algorithms and traffic data to minimize urban traffic congestion and enhance travel efficiency. Utilized machine learning and heuristic approaches for dynamic signal control and intelligent vehicle routing.

**Technologies used:** Python, Genetic Algorithm, A\* Search, Q-learning, Fixed Cycle Algorithm, Longest Queue First Algorithm, SUMO (Simulation Of Urban Mobility)

## TEXTUTILS

Developed TextUtils, a React-based web application that allows users to manipulate and analyze text with ease. Used HTML, CSS, JavaScript, Bootstrap, and ReactJS to create a clean, responsive UI with features like word/character count, case conversion, and whitespace removal. Enhanced user experience with real-time updates and interactive feedback for each operation.

**Technologies used:** HTML, CSS, JS, Bootstrap, ReactJS

## SOUND DETECTION USING LED LIGHTS

I developed a sound detection system that triggers LED lights based on ambient noise levels, creating an interactive lighting effect. The system uses a sound sensor module to detect varying audio intensities and is programmed with microcontroller logic to activate the LEDs accordingly. The lighting reacts instantly to sounds like claps or voices, providing a real-time response. This project demonstrates the use of basic sensors to create engaging, sound-activated experiences and can be expanded for applications like music-synced lighting or sound-triggered alerts.

**Technologies used:** HTML, CSS, Javascript, PHP, MySQL

## ACHIEVEMENTS

- First place in SAANKETHIKA 2K25 ELECTROFIX event at RMD Engineering College on March 17, 2025.
- Third place in NEXATHON-2K25 Poster Making event at Vel Tech Mutli Tech Engineering College on March 20, 2025.
- Presented a research paper at the INNOVISTA'25 Conference at Arunai Engineering College on March 6, 2025.
- Finalist in NEXATHON'25 Hackathon at KCG College of Technology on April 4, 2025.

## CERTIFICATIONS

- Google AI Essentials – Coursera, Jan 2025
- JavaScript Essentials 1 – Cisco, July 2024
- Tableau and PowerBI - Velammal Engineering College, April 2024
- Introduction to Cybersecurity - Cisco, June 2024
- Fundamental of Digital Marketing - Google, July 2024