

# KAVIRASU C

Tiruppur, India

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Portfolio — GitHub — LinkedIn

## Objective

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Aspiring Computer Science undergraduate seeking an internship in full-stack development or software engineering. Strong foundation in web technologies, data structures, and software engineering principles, with hands-on experience building scalable web applications and developing AI-driven solutions using Large Language Models (LLMs) and Retrieval-Augmented Generation (RAG).

## Education

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### Bachelor of Engineering in Computer Science and Engineering

Hindustan Institute of Technology, Coimbatore

2023 – 2027

CGPA: 8.2

## Technical Skills

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**Programming Languages:** Python, Java, C++, JavaScript

**Web Development:** HTML, CSS, React.js, Node.js, Express.js, REST APIs

**Databases:** MongoDB, MySQL

**Tools & Platforms:** Git, GitHub, VS Code

**Core Concepts:** Data Structures and Algorithms, Object-Oriented Programming, Computer Networks, Operating Systems

## Projects

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### Personal Portfolio Website

2025

Live Demo — GitHub

- Designed and developed a fully responsive personal portfolio using HTML, CSS, JavaScript, and React.
- Implemented reusable React components and modern UI/UX practices.
- Optimized layout for cross-browser compatibility and multiple screen sizes.
- Deployed the application using GitHub Pages.

### QR Code Generator Web Application

2025

Live Demo — GitHub

- Developed a React-based web application to generate QR codes from user input.
- Implemented real-time QR code generation using state management.
- Focused on clean UI design, performance optimization, and usability.

### Natural Language to SQL Query System (RAG)

2025

- Developed a Text-to-SQL system allowing users to query relational databases using natural language.
- Implemented a RAG pipeline using All-MiniLM embeddings and FAISS for schema-aware query generation.
- Integrated Mistral LLM via Ollama to generate accurate SQL queries.
- Supported MySQL and PostgreSQL with automated query execution and result interpretation.

## Experience

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### Academic Projects and Self-Learning

2023 – Present

- Completed multiple hands-on projects focused on full-stack development and problem solving.
- Practiced data structures, algorithms, and object-oriented programming through coursework.

## Certifications

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- NPTEL – Programming in Java Certificate Link
- NPTEL – Python for Data Science Certificate Link
- Demystifying Networking Certificate Link
- Infosys Springboard – Database Management System Certificate Link