

# KARUPPAIYA R

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## SUMMARY

Enthusiastic and detail-oriented Software Developer with a foundation in Python, HTML, CSS, JavaScript, and SQL. Proven experience in developing responsive web applications and IoT-based projects. Strong in problem-solving, team collaboration, and continuous learning. Seeking to contribute to innovative software solutions as a Software Developer.

## EDUCATION

<b>Bachelor of Engineering in Electronics and Communication Engineering</b> Karpagam Institute of Technology, Coimbatore CGPA: 7.65	<b>2025</b>
<b>NxtWave Disruptive Technologies</b> Industry Ready Certification in Full-stack Development	<b>2024 (Present)</b>

## SKILLS

<b>Technologies</b>	HTML, CSS, Bootstrap, JavaScript, Python
<b>Database</b>	SQLite
<b>Soft Skills</b>	Problem-Solving, Team Collaboration, Leadership

## PROJECTS

### Density-Based Traffic Control System

A smart traffic management system designed to optimize signal control using real-time vehicle density.

- Developed an IoT-based solution using Arduino and sensors to automate traffic signal timing based on vehicle density.
- Achieved a 70% reduction in simulated traffic congestion by dynamically adjusting signal durations.

**Technologies Used:** Arduino, IoT Sensors.

### To-Do List Application ([Link](#))

A comprehensive Todo management tool designed to enhance productivity.

- Designed an intuitive interface using HTML, CSS, and Bootstrap to ensure ease of use across devices.
- Implemented dynamic task creation, editing, and deletion with JavaScript-based CRUD operations.
- Integrated local storage to ensure data persistence even after page reloads or browser closure.

**Technologies Used:** HTML, CSS, JavaScript, Bootstrap

### Bank Lite – Console-Based Banking System ([Link](#))

A terminal-based banking app to manage accounts with deposit, withdrawal, and transaction history features.

- Applied OOP concepts with SOLID principles and Low-Level Design (LLD) for better modularity and maintainability.
- Allows users to **deposit, withdraw, check balance**, and view **transaction history** in a secure and structured manner.
- Used file handling (JSON) to save and load account data.

**Technologies Used:** Python, OOP, JSON

## CERTIFICATIONS

- Build Your Own Static Website**, Nxtwave ([Link](#))
- Build Your Own Responsive Website**, Nxtwave ([Link](#))
- Build Your Own Dynamic Website**, Nxtwave ([Link](#))
- Introduction to Databases**, Nxtwave ([Link](#))

## ACHIEVEMENTS

**April Code Challenge Winner**

May 2023

Secured **7500/10000 points** by consistently coding for 1 month on **Nxtwave**