

# HARIHARAN B

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## PROFILE

Final-year **B.Tech Electronics and Communication Engineering** student (CGPA: 9) with a strong foundation in **programming, software development, and core electronics concepts**. Proficient in **Python, SQL, HTML, CSS, and JavaScript**, with practical exposure to **IoT systems, embedded logic, and PCB design tools**. Experienced in applying **analytical and problem-solving skills** through academic projects and internships in **web development and automotive systems**. Committed to **continuous learning, client-oriented solutions and delivering high-quality technical solutions**.

## SKILLS

- **Core Engineering:** Digital Electronics, Microcontroller, Embedded System, VLSI Basics, PCB Design
- **Tools & Simulation:** Verilog, Silvaco TCAD, MATLAB, Breadboard
- **Programming:** Python, SQL (Basic)
- **Web Development:** HTML, CSS, JavaScript
- **Soft Skills:** Problem Solving, Analytical Thinking, Documentation, Teamwork, Effective Communication, Client Coordination

## EDUCATION

<b>B.Tech, ECE</b> , SRM Institute of Science and Technology	2022–2026, CGPA: 9
<b>HSC (XII)</b> , Victory Matric Hr Sec School	2022, 83.7%
<b>SSLC (X)</b> , Victory Matric Hr Sec School	2020, 90.6%

## PROJECTS

### 1. Automatic Hydro Management System (IoT + Embedded Systems)

Developed an Arduino-based irrigation automation system using **soil moisture and water-level sensors**. Designed and tested circuits to automate pump control based on sensor readings. Implemented **real-time monitoring, Excel-based logging, and alert notifications**. Demonstrated skills in **IoT integration, embedded systems, automation, and hardware–software interfacing**.

### 2. TFET Simulation Analysis (VLSI + Device Simulation)

Performed transistor-level simulations using **Silvaco TCAD** to compare **TFET and MOSFET devices** for DC, AC, and RF characteristics. Analyzed **I–V curves, sub-threshold slope, and power efficiency** for low-power applications. Generated structured plots and technical reports, showcasing knowledge in **semiconductor device modeling, circuit simulation, and data interpretation**.

### 3. Responsive Landing Page (Web Design)

Created a mobile-first landing page with structured sections, call-to-action buttons, and navigation menus using **HTML, CSS, and JavaScript**. Applied responsive design techniques and optimized assets to ensure **fast load times, accessibility, and cross-device compatibility**. Enhanced user engagement by incorporating interactive buttons and hover effects, demonstrating proficiency in frontend design best practices.

## EXPERIENCE

<b>Web Development Intern – Prodigy InfoTech</b> <i>Industry: IT – Web Development</i>	May–June 2025
<ul style="list-style-type: none"><li>• Developed responsive dashboards and web applications using <b>HTML, CSS, JavaScript and Bootstrap</b>.</li><li>• Enhanced <b>UI/UX design, frontend interactivity, and page responsiveness</b>.</li><li>• Collaborated with teams to implement client requirements and optimize project delivery.</li></ul>	
<b>Intern – Peeesyem Hyundai Service</b> <i>Industry: Automotive – Service and Maintenance</i>	May–June 2024
<ul style="list-style-type: none"><li>• Gained hands-on exposure to <b>vehicle servicing, maintenance procedures, and diagnostic tools</b>.</li><li>• Observed and supported <b>technical inspections, engine checks, and fault analysis</b>.</li><li>• Understood the workflow of an authorized <b>service center</b> and customer handling process.</li></ul>	

## CERTIFICATIONS

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| 1. IBM – Python for Data Science       | 2. NPTEL – Python for Data Science                 |
| 3. HackerRank – Python (Basic)         | 4. HackerRank – SQL (Basic)                        |
| 5. HackerRank – Java (Basic)           | 6. Goldman Sachs – Software Engineering Internship |
| 7. Great Learning – Introduction to AI | 8. VLSI Workshop (Genesis'24)                      |

## LANGUAGES

English (Professional), Tamil (Native), Japanese (Basic)