

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

Web Development Intern – Prodigy InfoTech

May–June 2025

Industry: IT – Web Development

- Developed responsive dashboards and web applications using **HTML, CSS, JavaScript and Bootstrap**.
- Enhanced **UI/UX design, frontend interactivity, and page responsiveness**.
- Collaborated with teams to implement client requirements and optimize project delivery.

Intern – Peeyesym Hyundai Service

May–June 2024

Industry: Automotive – Service and Maintenance

- Gained hands-on exposure to **vehicle servicing, maintenance procedures, and diagnostic tools**.
- Observed and supported **technical inspections, engine checks, and fault analysis**.
- Understood the workflow of an authorized **service center** and customer handling process.

CERTIFICATIONS

- IBM – Python for Data Science
- NPTEL – Python for Data Science
- HackerRank – Python (Basic)
- HackerRank – SQL (Basic)
- HackerRank – Java (Basic)
- Goldman Sachs – Software Engineering Internship
- Great Learning – Introduction to AI
- VLSI Workshop (Genesis'24)

LANGUAGES

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