PRIYANKA S

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EDUCATION

B.E. in Electronics and Communication Engineering   **CGPA – 9.51**
Chennai Institute of Technology, Chennai, Tamil Nadu   (2023-2027)

B.S. in Data Science and Applications   **CGPA – 8.13**
Indian Institute of Technology, Madras, Tamil Nadu   (2024-2028)

INTERNSHIP EXPERIENCE

Research Intern | Chennai Institute of Technology   (Nov-Dec 2024)
- Carried out research on data security and privacy in IoT-based medical applications, evaluating multiple techniques to enhance the protection of sensitive health data.

Intern Trainee | Hwashin Automotive India Private Limited   (Jun 2024)
- Gained hands-on experience in robotic automation and industrial electronics, working with 10+ robotic systems used in automotive assembly.

Intern Trainee | Southern Railways EMU Shed   (May 2024)
- Studied 20+ key components of EMU train systems, including power distribution and braking mechanisms, to understand railway electrical operations.

PROJECTS

UVM-Based Functional Verification of D Flip-Flop   (Mar 2025)
- Developed and verified a D Flip-Flop using SystemVerilog and UVM, implementing a modular testbench for functional validation.
  Link: https://github.com/Priyankas-ece/D_Flipflop_verification_with_UVM

EduConnect – Mental health monitoring app   (Jan 2025)
- Developed a React-based mobile app with Firebase and Python, assisting 100+ students in tracking their mental health and academic progress.
  Link: https://github.com/Priyankas-ece/EduConnect

Water Quality Monitoring device   (Oct 2024)
- Engineered an Arduino-based system integrating a TDS sensor and IoT dashboard, improving water quality monitoring accuracy by 90%.
  Link: https://github.com/Priyankas-ece/Water_quality_monitor

Bank Management System   (Jun 2023)
- Developed a Python-based bank management system with Tkinter UI and MySQL, capable of handling 500+ accounts and processing 1,000+ transactions daily.
  Link: https://github.com/Priyankas-ece/Bank_management_system

CERTIFICATIONS

- Android Developer (Google), Embedded System Developer (Microchip) – AICTE Virtual Internship   (Dec 2024)
- Semiconductor Physics – Coursera   (May 2024)
- Analog Circuits, Introduction to Programming in C – NPTEL   (Mar 2024)
- Advanced Diploma in Python Programming (ADPP)   (Aug 2023)

ACHIEVEMENTS

- **Published a conference paper on implementation of data security techniques in IoT-based medical applications.**
- **Completed Foundational Level in BS Programming and Data Science at IITM.**
- **Solved 400+ problems in LeetCode enhancing algorithmic thinking and coding proficiency across topics.**
- **Reached the finals of Pinch on Pinch at IIITDM.**

SKILLS

Proficient: System Verilog, Verilog, Python, C, Java, MS Office, Linux

Basics: UVM, C++, HTML, CSS, JavaScript, SQL

Tools: Synopsys, Cadence, Xilinx Vivado, Arduino IDE, Jyputer, Google Colab, React, Figma, VS Code

Language: English, Tamil