Jay Premani

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https://github.com/jpremani | https://jaypremani-portfolio.netlify.app/

Professional Experiences

Project Assistant- I

Central Electronics Engineering Research Institute, Pilani *Sep 2025 – March 2026*

- Worked on modifying and customizing the NanoVNASaver application using Python.
- Developed and improved GUI components such as sweep control, markers and display settings.
- Integrated NanoVNA hardware with python for real-time data acquisition and visualization.
- Worked with serial communication on Raspberry Pi for device connectivity.
- Debugged hardware communication issue and optimized system performance.

Project Assistant- I

Central Electronics Engineering Research Institute, Jaipur *Nov 2024 – Sep 2025*

- Developed a **Python-based desktop application** to communicate with the **ESP32 microcontroller**, supporting real-time data acquisition, transmission, and monitoring.
- Designed a Python GUI for interactive display of live sensor values; integrated Matplotlib for real-time plotting.
- Collaborated with research scientists and engineering teams to test, debug, and deploy both desktop and web-based applications in real-world scenarios.

Front End Developer Trainee

Naresh IT, Hyderabad *April 2024 – Oct 2024*

- Completed a 6-month internship focusing on front-end web development using React.js, JavaScript, HTML, and CSS, developing responsive and interactive web applications.
- Proficient Front-End Developer skilled in building responsive, interactive, and user-friendly web interfaces. Possesses excellent problem-solving skills, attention to detail, and a collaborative mindset, committed to delivering high-quality, user-focused digital solutions that align with business goals.

Junior Electrical Engineer

SunCity Urja Private Limited, Jodhpur *May 2021 – April 2022*

- Dedicated and detail-oriented Junior Engineer with 1 years of hands-on experience in the operation and maintenance of high-voltage substations (132 kV GSS RVPN). Proven track record of ensuring reliable power system operations and adhering to safety and performance standards. Skilled in equipment monitoring, fault diagnosis, and routine maintenance. Demonstrates a strong work ethic, responsibility, and commitment to quality service, with a satisfactory service record and professional conduct.

Projects

Portfolio Website | *Html, CSS, JavaScript, React* link

- Developed a responsive personal portfolio to showcase skills and projects using modern web technologies.

Book Store Application | *Html, CSS, JavaScript, React* link

- Build a full-stack online bookstore with user authentication, REST APIs and responsive UI for seamless browsing and purchasing.

Laundry Application | *Html, CSS, JavaScript, React, Redux, Firebase* link

- Developed a laundry service platform with order management, state handling using Redux, and firebase-based authentication.

Education

BK Birla Institute of Engineering and Technology Pilani

Electrical Engineering *2014-2018*

Technical Skills

Language : Java, Python, HTML, CSS, JavaScript, PLC Programming
Frameworks : Bootstrap, React-Js
DataBase : MongoDB, MySql
Developer Tools : VSCode, PyCharm, Arduino IDE