Gondhi Nesara

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Linkdein | GitHub

Education

RoboWave Pvt. Ltd. **Sep 2025 - Mar 2026**
Java Full Stack Development Intern Bengaluru
Current Coursework : HTML, CSS, JavaScript, Core Java, SQL, PostgreSQL, JDBC, J2EE, Servlet, Spring Framework, Hibernate.

Visvesvaraya Technological University, Jss Academy of Technical Education **Dec 2021 - Jun 2025**
Electronics and Communication Engineering Bengaluru
Relevant Coursework: Digital Electronics, Microprocessors & Microcontrollers, VLSI Design, Embedded Systems, Signal Processing, Communication Systems, Computer Networks, Python Programming,

Bunt's Sangha RNS Composite PU College, Bengaluru **Jun 2019 - Mar 2021**
Karnataka Pre-University Board, PCMCs Bengaluru

Skills

Programming Languages : Java, SQL, Verilog, JavaScript, HTML, CSS, C.

Hardware Skills : VLSI Design Fundamentals, Digital Electronics & HDL Design, Microcontrollers, Circuit Design & Simulation.

Framework & Database & OS : JDBC, HibernateSpring, Spring Boot, MySQL, Windows

Software & Engineering Tools : VS Code, Xilinx Vivado, Cadence, QuestaSim, MATLAB.

Soft Skills: Team Collaboration, Leadership, Adaptability to new technologies, Problem-Solving, Creativity in technical approach.

Experience

BHEL - Power Electronics Intern

- Supported analysis of power conversion systems used in power plants and railway locomotives, focusing on inverter/rectifier modules and high-power control logic.
- Worked with IGBT & MOSFET-based power circuits, studying switching characteristics, thermal behavior, and reliability under industrial load environments.
- Assisted in testing and validation of control panels, drives, transformers, and protection relays, gaining hands-on exposure to large-scale power electronics infrastructure.

BESCOM - DAS (Distribution Automation System) Intern

- Assisted in real-time monitoring of SCADA-based urban power distribution networks, supporting feeder performance and supply restoration activities.
- Worked on load-flow assessment, automation systems, and outage management, helping improve grid reliability and response time.
- Observed integration of smart meters, GIS mapping, and feeder automation in modern electrical distribution systems for fault localization and efficiency improvement.

Academic Projects

ML Based Brain Tumor Detection and Classification

- Designed and implemented a machine learning–based tumor detection system using median filtering, histogram equalization, and Sobel edge detection to remove noise and enhance tumor boundaries. Performed segmentation and feature extraction to isolate tumor regions and classified them as cancerous or non-cancerous using a Random Forest classifier, achieving 60–70% accuracy on a public medical image dataset.

Vehicle-Sensing Smart Street Light Using Solar Energy

- Developed a smart street-lighting system using IR sensors for vehicle detection and LDR for automatic day–night control. Utilized Arduino to process sensor inputs and regulate LED brightness through PWM-based dimming for improved energy efficiency. Powered the system with solar panels and battery storage, enabling standalone and eco-friendly operation while achieving significant energy savings by activating lights only during motion events.

Certification

- **Analysis and Design Principles of Microwave Antennas-NPTEL.**
- **Data Analytics Using Power BI Tools, Vodafone Idea Foundation (_VOIS)**
- **Python Programming with Application Projects & Solution-INDOSKILL**

Extra Curricular

- Participated in inter-department tech fests and IoT/VLSI workshops.
- Passionate about creative arts, including portrait sketching and digital editing.
- Enjoy playing chess and cricket, enhancing focus, strategy, and teamwork.
- Languages: English, Kannada, Hindi