RAGHAVENDRA

+91-6362768325 | raghavendraop1234@gmail.com   in linkedin.com/in/raghavendra-

m | github.com/raghavendra9731   Bengaluru, Karnataka - 560060

OBJECTIVE

Final year Electronics and communication Engineering student with skills in Java, Python, c,c++(basics).Passionate about full-stack web development with strong problem-solving and software engineering abilities.

EDUCATION

- **JSS Academy of Technical Education**   *December 2022- Present*
  B.E. in Electronics and communication and Engineering   Bengaluru, India
  ◦ CGPA: 8.5

- **Sri Vidyaniketana PU COLLEGE**   *2021*
  Pre-University Education   *Gangavathi*
  ◦ Grade: 93.66

- **Vidyaniketana Public School**   *2019*
  Secondary Education   *Gangavathi*
  ◦ Grade: 90.88

SKILLS

- **Programming Languages:** C, C++, Python (Basics),
- **Tools / Platforms:** Git, GitHub, VS Code, MATLAB , Arduino IDE, HTML/CSS

PROJECTS

- **Project A: [Foot Step Power Generation Using Piezoelectric Sensor]**

  ◦ A network of piezoelectric sensors embedded in floor tiles converts mechanical stress from footsteps into electrical energy through the piezoelectric effect.

  ◦ Generated voltage from each sensor is collected, conditioned via rectifiers and voltage regulators, and stored in capacitors or batteries for later use.

  ◦ The harvested energy powers low-consumption devices (e.g., LED lighting or wireless sensors), demonstrating a sustainable, on-site renewable energy solution for smart buildings**.**

- **Project B: [Secure Visual Data Processing: Image Encryption and Decryption through Reversible Logic Gates in VLSI Design]**

  ◦ Design and implement a VLSI architecture using reversible logic gates (e.g., Toffoli and Fredkin gates) to perform real-time encryption and decryption of visual data streams with minimal energy dissipation.

  ◦ Develop a secure data path integrating reversible gate networks for pixel-wise permutation and substitution, ensuring lossless recovery of original images while thwarting unauthorized access.

  ◦ Validate the design through HDL simulation and FPGA prototyping, analyzing metrics like power consumption, area overhead, and encryption throughput for scalable secure imaging systems

  -Project C: [Air and Weather Quality Monitoring System]

  -Project D: [Implementation of 5-Stage Pipeline MIPS Architecture]

CERTIFICATIONS

- **programming in python**
- **internet of things from NPTL**
- **data structures in C++ form NPTL**

ACHIEVEMENTS

- Solved 120+ problems across all coding platforms. Profiles - GeeksForGeeks, LeetCode
- Complete Arduino for Beginners -Udemy
- Full stack Development -GeeksforGeeks

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