NACHIKETH RAJ B R

+91-7975540803 |nachikethraj08@gmail.com | in http://linkedin.com/in/nachiketh-

raj-b-r-| \ //github.com/nachikethraj 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: 6.6

Mes PU College Malleswaram Bangalore

2022

Pre-University Education

Bangalore

∘ Grade: 71

- Chinmaya Vidyalaya Mandya

2020

Secondary Education

Mandya

∘ Grade: 84 SKILLS

• Programming Languages: C, C++, Python (Basics),

- Tools / Platforms: Git, GitHub, VS Code, MATLAB, Arduino IDE, HTML/CSS

PROJECTS

- Project A: [Smart Blood Oxygen Level Detector]
 - Designed a wearable device integrating an SpO₂ sensor (like MAX30100/MAX30102) to monitor blood oxygen saturation levels in real-time.
 - Developed embedded firmware using Arduino IDE to collect photoplethysmographic (PPG) signals and calculate SpO₂ using signal processing algorithms.
 - Implemented a basic display and alert system, showing real-time oxygen levels on an OLED screen and triggering alerts if values fall below a threshold, promoting early health intervention.
- Project B: [Trusted Execution in RISC-V using Secure Zones]
 - Designed a TEE model on RISC-V with hardware-level zone isolation for secure task execution.

Execution steps:

- Initialize secure memory and keys
- Run critical code in isolated zone
- Secure context switching
- -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