

# Prajwal.N.A

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## PROFILE

Motivated and detail-oriented fresher with a robust educational foundation in ECE, complemented by minors in CSE with a specialization in VLSI. Seeking a software internship to apply my coding, algorithm, and software development skills. Eager to gain practical experience and contribute to dynamic teams

## PROFESSIONAL EXPERIENCE

**Emage Soft Pvt Ltd, Software Engineer Intern**

Jan 2024 – Apr 2024

- Technologies: Python, RViz, Hector SLAM, YOLOv5
- Integrated RPLIDAR A1M8 R6 sensor with RViz and Hector SLAM for real-time mapping and localization.
- Developed Python scripts for sensor interfacing and data processing.
- Utilized deep learning for enhanced data interpretation.
- Validated system using the KITTI dataset.

## EDUCATION

**PES University, B-tech Electronics and Communication**

Dec 2020 – Jun 2024

**Key Courses:** Data Structures, Algorithms, C Programming, Python Programming, Computer Networks, Machine Learning, Computer Architecture, RISC-V Architecture, AI for Industries, Engineering Mathematics, Linear Algebra. Specialization in VLSI.

**PES University, Minor Degree in Computer Science**

Jan 2022 – Dec 2022

## SKILLS

### **Programming Languages:**

Python, C, C++, Java, Verilog, System Verilog, HTML, MATLAB

### **Software:**

Visual Studio, LT Spice, Wireshark

### **Development:**

ReactJS, NodeJS, MongoDB, MySQL, CSS, Flutter

## PROJECTS

### **Run-Time Detection of Hardware Trojan Attacks on Program Counter in RISC-V Processor**

**Technologies:** RISC-V architecture, real-time security analysis

Developed and implemented techniques to mitigate security risks in integrated circuits.

### **Netflix Clone**

**Technologies:** Java, HTML, CSS, OOP

Developed a Netflix-like platform featuring user authentication, content streaming, and search functionalities.

### **Movie Recommendation System in MATLAB**

**Technologies:** MATLAB, collaborative filtering, content-based filtering

Created a personalized movie recommendation system using collaborative and content-based filtering techniques

### **Olympic Management System using Python and SQL**

**Technologies:** Python, SQL

Designed and implemented a system for managing Olympic event logistics, participant information, and result tracking.

### **Packet Sniffing Using Wireshark**

**Technologies:** Wireshark

Extracted and analyzed key network data using filters to enhance network security and troubleshoot network issues.

### **Traffic Control System**

**Technologies:** Python, YOLOv5

Developed a traffic control system to manage traffic flow based on density and the presence of emergency vehicles.

## **PUBLICATIONS**

### **Run-Time Detection of Hardware Trojan Attacks on Program Counter in RISC-V Processor**

2024 IEEE International Conference on Recent Innovation in Smart and Sustainable Technology.

## **CERTIFICATES**

- AI/ML course (PES University in collaboration with NOKIA)
- Ethical Hacking (Udemy)
- The Web Developer Bootcamp (Udemy)

## **EXTRACURRICULARS**

- Hallathon (24-hour hackathon), PES University in collaboration with Cloudera, Secured 8th place (2022)
- Robofet (24-hour hackathon), IEEE RAS of PES University, Secured 2nd place (2021)

## **SOFT SKILLS**

- Strong analytical and problem-solving abilities
- Excellent teamwork and communication skills
- Ability to learn quickly and adapt to new technologies
- Attention to detail and accuracy
- Time management and organizational skills