SAI ABHISHEK ARAVIND

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PROFILE

- ➤ Incoming Masters Student at the **University of Colorado, Boulder** in the Electrical, Computer, and Energy Engineering Department.
- ➤ Sharp-eyed, motivated, and reliable Graduate Student with experience in **Embedded systems, Control Systems, Computer Architecture, Firmware Development, and Technology management**.
- ➤ Capable to effectively self-manage during independent projects and collaborating as part of a productive team and possesses strong organizational abilities with proven successes in managing multiple academic projects and volunteering events.

EDUCATION

July 2018 –
May 2022

Vellore Institute of Technology (VIT University), India
Bachelor of Technology (B. Tech) in Electronics and Communication Engineering.
CGPA – 8.29/10 (3.46/4)
Coursework – Control systems, Embedded System Design, Digital Logic Design, Computer Organization, and Architecture, Linear Integrated Circuits, Analog Electronic Circuits, Computer network and communications, Microcontroller and Applications, Signals and Systems.

INTERNSHIPS

Dec 2021 -
April 2022

Firmware Engineer Intern, Sanmina Technology Pvt. Ltd. Chennai

Worked on the Yocto-based Embedded Linux System for Embedded devices in the field of Health Care. Learned to use the Yocto Project to develop standalone Linux distribution of Embedded Devices. Assigned to write verification scripts in Python for the Intracranial Pressure Monitor system. Helped the team in testing, debugging, and deployment of the system.

May 2020 -
July 2020

Data Mining Intern, Edvicer Pvt. Ltd.

Assigned to scrape clean and structured data such as comments, links, images, titles, and descriptions from different websites to build their recommendation system. Learned automation using Selenium to automate the above process. Provided the complete data with the necessary cleaning, modifications, and structure to the Machine Learning team to use the provided data for the Recommendation System.

RESEARCH PAPERS AND PUBLICATIONS

2021   **END TO END COVID-19 PUBLIC SCREENING SYSTEM** - *INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE)* - PAPER PUBLISHED IN IEEE XPLORE DIGITAL LIBRARY AS PART OF THE IEEE CONECCT 2021CONFERENCE.

2022   **IOT-BASED CONTROL SYSTEM FOR HOME AUTOMATION** - *INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE*) - PUBLISHED IN IEEE XPLORE DIGITAL LIBRARY AS A PART OF THE TEMSMET 2021 CONFERENCE.

2022   **ANTI-ABDUCTION SYSTEM FOR THE VULNERABLE** - *INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE)* - PAPER PUBLISHED ON IEEE AS A PART OF THE 2021 TEMSMET CONFERENCE.

2022   **FANET ROUTING SURVEY: AN APPLICATION DRIVEN PERSPECTIVE** - *LECTURE NOTES IN ELECTRICAL ENGINEERING (SPRINGER)* - ACCEPTED FOR PUBLICATION IN LECTURE NOTES IN ELECTRICAL ENGINEERING (SPRINGER) AT VICFCNT 2021 CONFERENCE.

SKILLS AND TECHNOLOGIES

- C/C++
- Linux
- Embedded Systems Design
- Verilog
- Python
- Matlab
- R For Data Analytics
- Core Java

PROJECTS

- IoT-baseded Control System for Home Automation
- End to End COVID-19 Public Screening System
- Gender Identifier by Voice Analysis using MATLAB and Signal Processing.
- graphFramework – An open-source C++ library for graph data structure
- Design and Analysis of Anti-Lock Braking System (Control Systems)
- Car Number Plate Detection Using MATLAB and Image Processing.

CERTIFICATIONS

- PCAP: Programming in Python from Cisco Networking Academy.
- Core Java Training from The Learn Programming Academy.
- Introduction to Artificial Intelligence from VITOL.
- Ethical Hacking and Cyber Security course from zSecurity.
- Software Engineering Virtual Experience - JP Morgan Chase& Co.
- Marketing Management from VITOL.