

SAI ABHISHEK ARAVIND

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Chennai, India.

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, Computer Architecture, Firmware Development and Technology management**.

Capable to effectively self-manage during independent projects, as well as collaborate as part of a productive team and possesses strong organizational abilities with proven successes managing multiple academic projects and volunteering events.

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 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, 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.

May 2020 -
July 2020

Wireless Engineer Intern, Sify Technologies.

Assigned to the wireless engineering team. Learned about communication technologies, their respective protocols, and real-world applications. Helped the wireless testing team in solving day-to-day connectivity issues faced by real-world customers.

EDUCATION

Vellore Institute of Technology (VIT University), India

July 2018 – Present

Bachelor of Technology (B. Tech) in Electronics and Communication Engineering. CGPA – 8.08

DAV Boys Senior Secondary School, Chennai

March 2018: CBSE 12th Grade – 86.7% Computer Science group.

March 2016: CBSE 10th Grade – CGPA 9.4.

RESEARCH PAPERS AND PUBLICATIONS

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| 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 2021 CONFERENCE. |
| 2021 | IOT BASED CONTROL SYSTEM FOR HOME AUTOMATION - INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE) - ACCEPTED FOR PUBLICATION IN IEEE XPLORE DIGITAL LIBRARY AS A PART OF THE TEMSMET 2021 CONFERENCE. |
| 2021 | 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. |
| 2021 | ANTI-ABDUCTION SYSTEM FOR THE VULNERABLE - INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE) - PAPER ACCEPTED AT THE 2021 TEMSMET CONFERENCE. |

SKILLS AND TECHNOLOGIES

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| <ul style="list-style-type: none">• C/C++• LINUX• VHDL AND FPGA PROGRAMMING• VERILOG• EMBEDDED SYSTEMS | <ul style="list-style-type: none">• PYTHON• MATLAB• R FOR DATA ANALYTICS• CORE JAVA• GIT |
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PROJECTS

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| <ul style="list-style-type: none">• IoT based Control System for Home Automation• End to End COVID-19 Public Screening System• Gender Identifier by Voice Analysis using MATLAB and Signal Processing. | <ul style="list-style-type: none">• graphFramework – An open-source C++ Library for graph data structure• Design and Analysis of Anti-Lock Braking system• Car Number Plate Detection Using MATLAB and Image Processing. |
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CERTIFICATIONS

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| <ul style="list-style-type: none">• PCAP: Programming in Python from Cisco Networking Academy.• Core Java Training from The Learn Programming Academy.• Introduction to Artificial Intelligence from VITOL. | <ul style="list-style-type: none">• Ethical Hacking and Cyber Security course from zSecurity.• Software Engineering Virtual Experience - JP Morgan Chase & Co.• Marketing Management from VITOL. |
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