Aravind Potluri

Student at IIT Kanpur

+919505831173
Visakhapatnam, Andhra Pradesh
aravindswami135@gmail.com

GitHub: cipherswami
Linkedin: cipherswami

To work in an innovative and challenging environment extracting the best out of me, which is conductive to learning and growing at a professional as well as personal level. Thereby, directing my future endeavors as an asset to the company.

SKILLS

Programming Languages	C/C++, Bash, Power-Shell, Python, MATLAB.
Skills	Linux, Network Stack and Security, Kernel Programming.
Communication	English, Hindi, Telugu.

EXPERIENCE

Flight Software Intern - *Agnikul Cosmos, Chennai*   **Jan' 23 - June' 23**
- Design of Launch Vehicle's Network Architecture.
- Worked on Time Sensitive Networking (TSN-IEEE 802.1) for the Launch Vehicle
- Performance analysis of communication protocols used on Launch Vehicle.

Project Intern - *URSC:ISRO, Bangalore*   **June' 22 - July' 22**
- AES - CCMP & GCMP Protocols development.
- Optimized the time complexity of those protocols nearly 10 fold.

PROJECTS

Boot Nethunter: It is an executable that boots Kali-Chroot (one Installed with Nethunter) in Termux. [Link]
Termux Superuser: Runs Android su with all Termux binaries included, in superuser mode. [Link]
PrivateSafeX: Password Protected Private folder to store personnel files. [Windows] [Link]
pyNaviC: Developed Back end of Navigation Correlator for IIST's NavIC hardware. [Link]

EDUCATION

Master of Technology - *Indian Institute of Technology Kanpur, Kanpur, GPA - 8.00*   **2023 - 2025**

+ *Thesis Project:* Indoor Localization development to WiFi 6 (Under Dr. Amitangshu Pal and Dr. Swamy Peruru)
- Introduction to Signal Analysis - EE605
- Representation And Analysis Of Random Signals - EE621
- Digital Communications and Networks - EE673
- Image Processing - EE604

Bachelor of Technology - *Indian Institute of Space Science and Technology, Thiruvananthapuram, CGPA - 7.01*   **2019 - 2023**
- Engg. Math-Physics & Chemistry, Basic Programming (c++), Basic Electrical and Electronics Engg.
- Calculus, Linear Algebra, Analog Ckts, Semiconductors Devices, EMT, Signals and Control Systems, DSP.
- Digital Ckts and VLSI, Instrumentation, Network Analysis, RF and MW COM., Communication systems.
- Computer Architecture, Computer Networks, Power Electronics, Navigation Systems, Advanced Sensors.
- Complex Networks, Intro to MEMs, Satellite and Optical COM., Intro to Aerospace Engg.
- *Miscellaneous*: Ethics, Principles of Management, Sci-Fi, Communication skills.

Intermediate Education - *Ascent Junior College, Visakhapatnam , Percentage - 95.5%*   **2016 - 2018**
- Mathematics, Physics and Chemistry, Communication Skills.

Matriculation - *Visakha Valley School, Visakhapatnam, CGPA - 10*   **2015 - 2016**
- Math, Sciences, Social Sciences and Communication Skills.

CERTIFICATES

Coursera: The Bits and Bytes of Computer Networking, Technical Support Fundamentals
Math Works: MATLAB OnRamp, Simulink OnRamp

ACTIVITIES

General Secretary - *IEEE Student Branch IIST*   **2022 - 2023**
Chair Person - *IEEE EdSoc Chapter IIST*   **2022 - 2022**